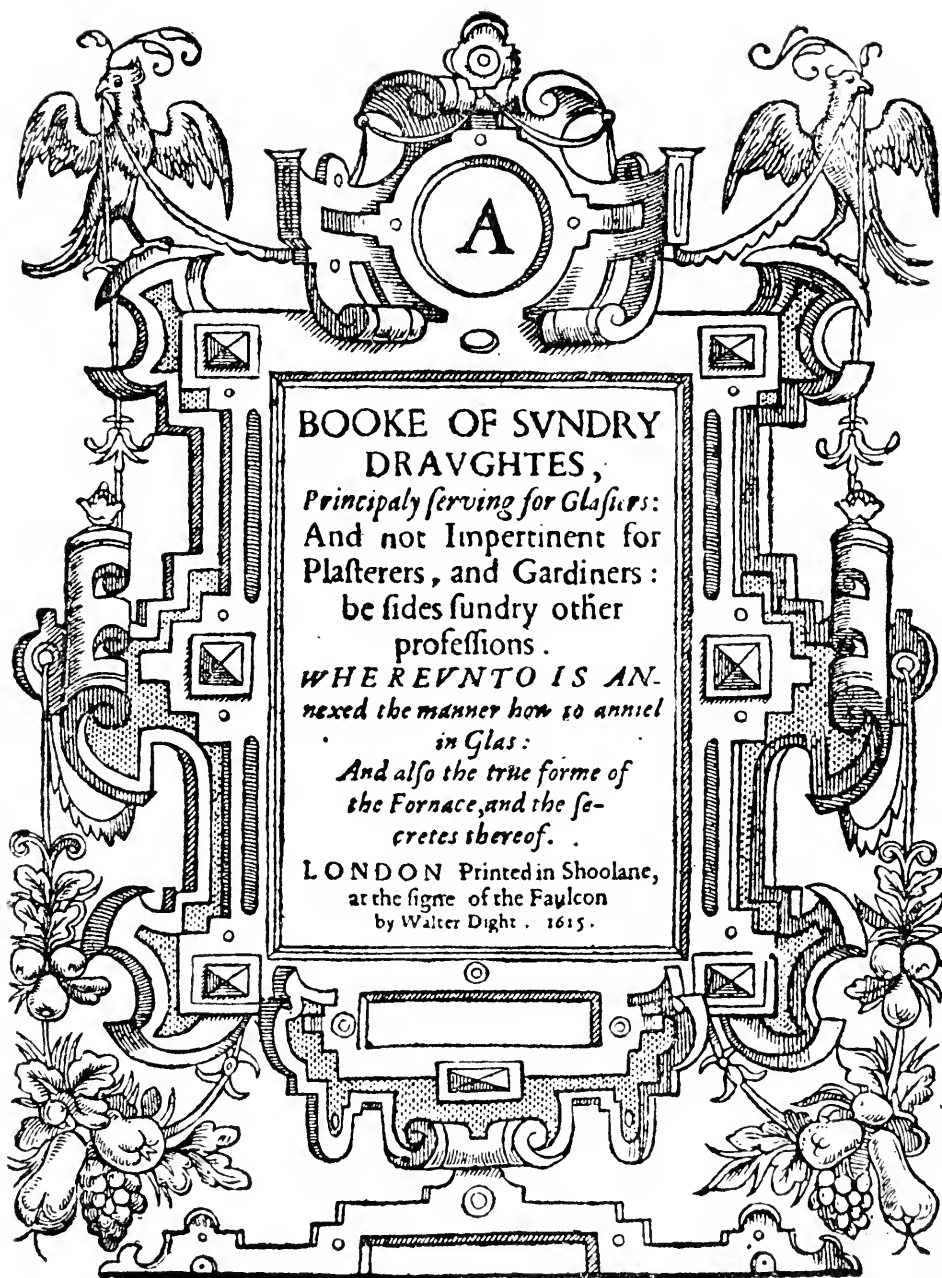




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LOS ANGELES

257



**BOOKE OF SVNDRY
DRAUGHTES,**

*Principally serving for Glasiers:
And not Impertinent for
Plasterers, and Gardiners:
be sides sundry other
professions.*

*WHEREVNTO IS AN-
nexed the manner how to annel
in Glas:*

*And also the true forme of
the Fornace, and the se-
cretes thereof.*

LONDON Printed in Shoolane,
at the signe of the Faulcon
by Walter Dight . 1615.

The Authour to the willing practisers of glazeing, and anneiling in Glasse.



S the principall beautie, and countenance of Architecture, consistes in outward ornament of lights, so the inward partes are ever opposite to the eies of the beholder, taking more delight in the beauty therof, being cunningly wrought, then in any other garnishing within the same.

To which purpose, is set downe in this, variety of draughts, some, ordinary and plaine, others, curious & pleasant, and although, it may seeme to those that are expert in glazeing, that some

of these draughts are needlesse, being so plaine and in vse, not deseruing in this sort to be published, yet notwithstanding here I doe in friendly courtesie admonish, that it is most needefull, giuing choice to the builder, both for price, and draught of worke, which by no vnderstanding can the Glazier so senciibly demonstrate his feat, as by showing his examples of draught, for by such show, the builders shall vnderstand, what to make choice off, for whose ease & furtherance only, I haue published this practise of glazeing, knowing the expert maister is not vnfurnished of these vsuall draughts, though each workeman haue not all of them.

And for the further benefit of the practiser, there is herevnto annexed drawing on each draught, either to be wrought or left, as it shall please the builder, most pleasant to all that are willing to haue the same: Therefore haue it not in light regard for the vse thereof, will giue you great delight, and worthy to be practised, as a speciall ornament to building, and will beautifie the Glaziers worke, be they neuer so expert.

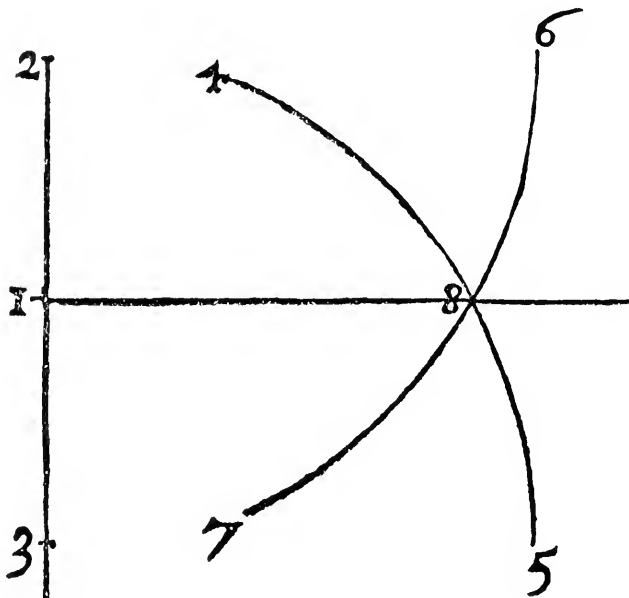
So by obseruing the order and rules here set downe, the maister or workeman shall not only see a plaine way, to imitate and follow those draughts, in glazeing and painting on glasse: but the simplest, and vnskild prentice, shall reape full and perfect vnderstanding thereby: praying the Almighty, to blesse your labours in following the same.

W. Gedde.

A2.

The

THE MANNER TO DRAWE
THE SQVARE.



Direction

Directions how to make your Square .

First then concerning the square, which although it be cōmon to fundry artificers, each one hauing his owne forme and devise, in drawing of it, some by deuision of halie circle, some by other rules: there is herefore set downe a more perfect and readier way for any worke in draught, and also if neede be, to try the square rule thereby: for certainly, glasse worke of all others, requires most an exact square, for the distance, of one haire out of square, will deface the whole worke, and bring it out of all frame.

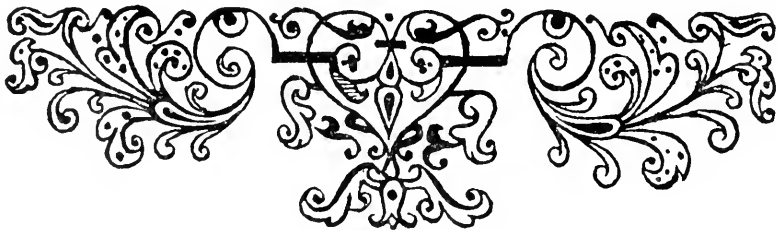
The ordering of the square.

To drawe this square: First you must drawe your line draught so long as your worke requireth, marking right thereon with your compasse, three points or alike distance, next, deuide your compasse larger, setting the one point on the figure 2. & with the other drawe a quarter circle betwixt 4. and 5. alter, remoue your compasse to the figure 3. and drawe a crosse circle ouer betwixt 6. and 7. and wheresoever the iost middle of the crosse appeareth, marke the same with the point of the compasse, as you may perceiue in the character, by the figure 8. lastly, drawe a draught, betwixt the figure 1. and the crosse point by the figure 8. and thou shalt find a perfect square to conduct thee all thy draughts. As on the former side is shewed.

The deuision of measures, in glasse draughts.

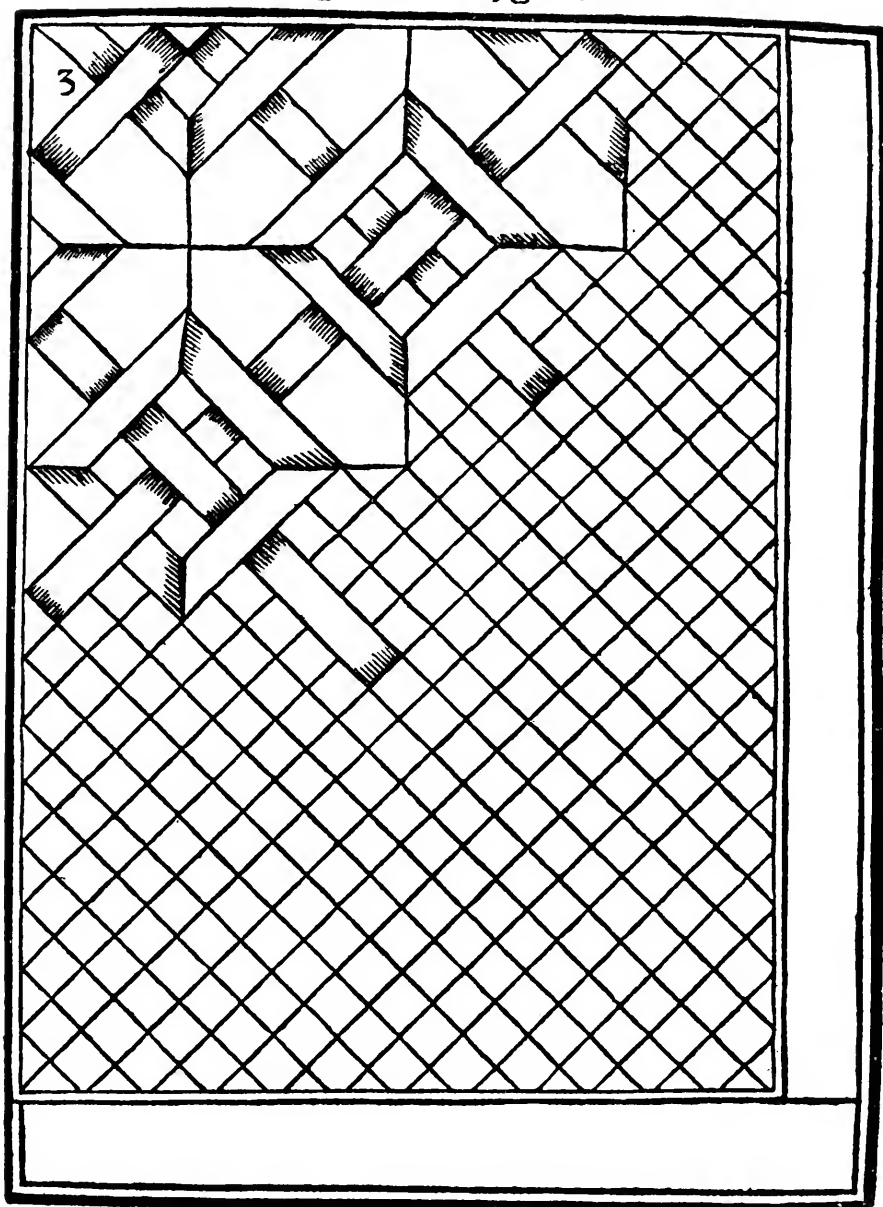
To make this more plaineto the practifer, the square draught for the most part passess on three severall deuisions, the first, on a declining, or collaterall square, others, on even squares, and the third, interlaced with both: This declining deuision, and setting this worke thereon, must begin after the forme you perceiue here on his deuyson, and may be extended, in any quantity you please: the perfect draught of this worke, and how it shall stande in glasse, you shall finde it in fol: 38. & other draughts also agreeable to the same measure, in fundry other places, as in fol: 16. 27. 47. and others.

It is also to be vnderstood, that the shadowing, and darkning, set downe in all those freats and draughts, demonstrates the dyapring, which is for the vse of those that desir'd to haue their worke beautified with the same, and the plaine draught, is the convoy, and course of the lead, which dyapring, must only be in gray, or blew colour, as is largely set downe amongst the rules of colour.



Begin

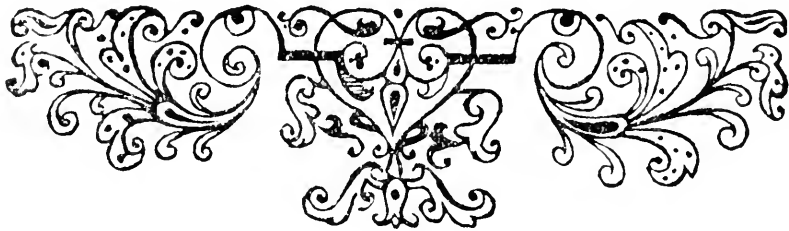
Begin this at the figure 3.



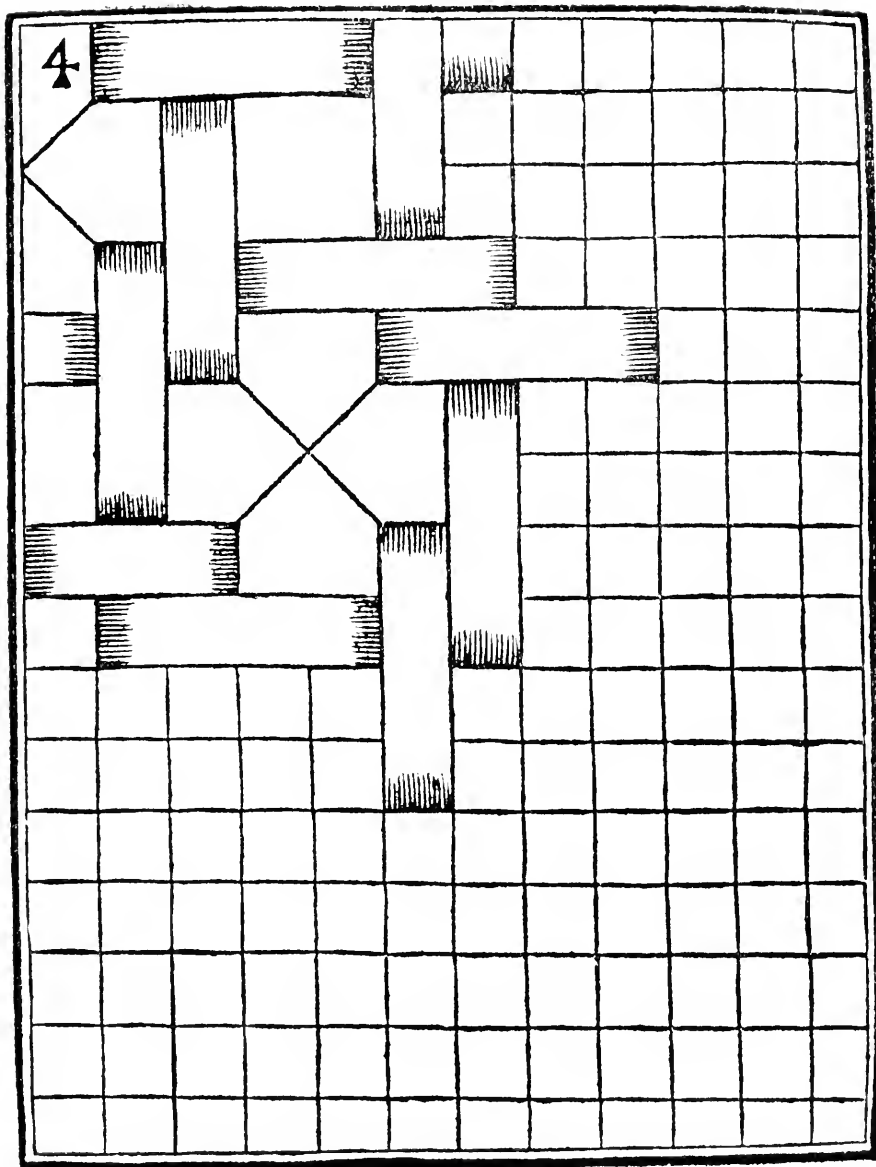
Of

Of even square deuision.

There be a number of draughts, wrought by this even direct square, which is most perfect of any; to set this worke right, ye must begin your first losing, at the figure 4. and so runne out in any quantity you will, as this deuision will shew you: the perfect, and full draught hereof, as it must stand in glasse-worke, you shall finde in fol: 43. with sundry other draughts of the same measure, as in fol: 40. and in other places.



Begin at the figure 4.



B 1

of

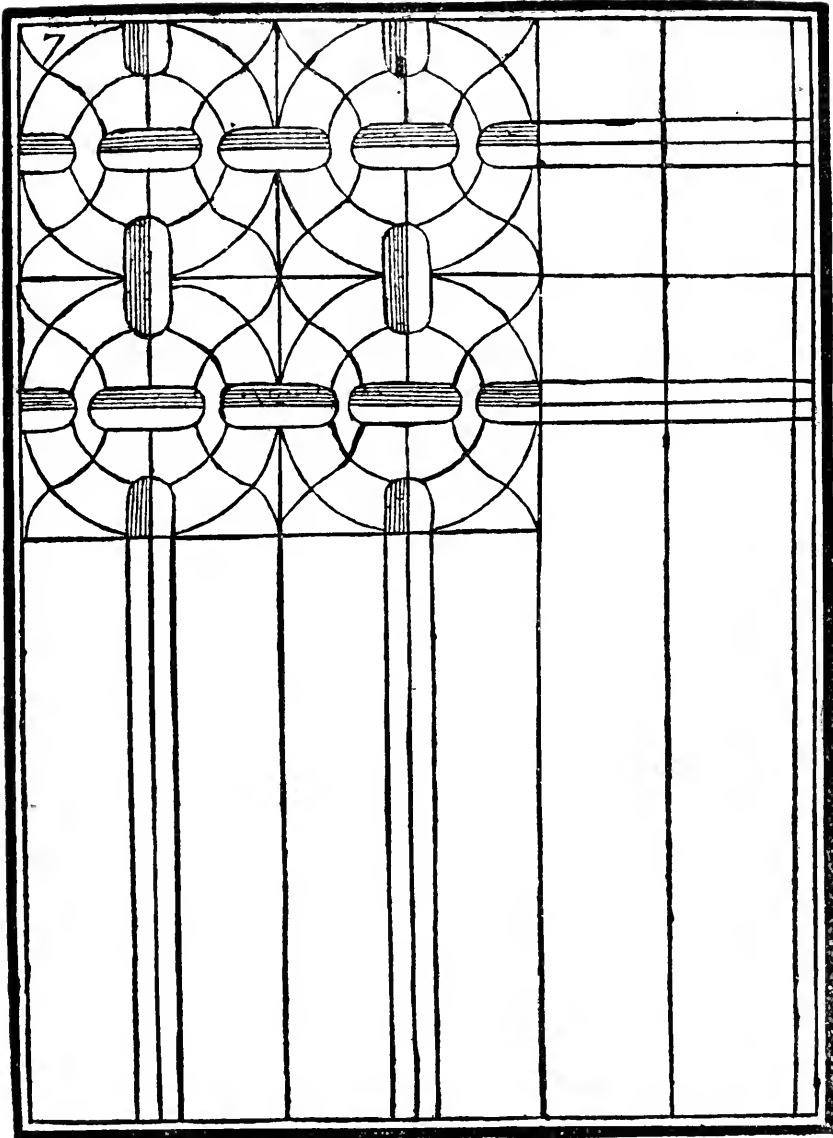
Of even crosse devisiō.

This sheweth a plaine draught with a double circle, and even over crosse measure, beginning his sett at the figure 7. This whole perfect draught, as it is to be wrought in glasse, you shall finde in fol: 72. with sundry other draughts also of the same devisiō, as in fol: 77. 78. 79. 80. 81. 82. and others.



Begin

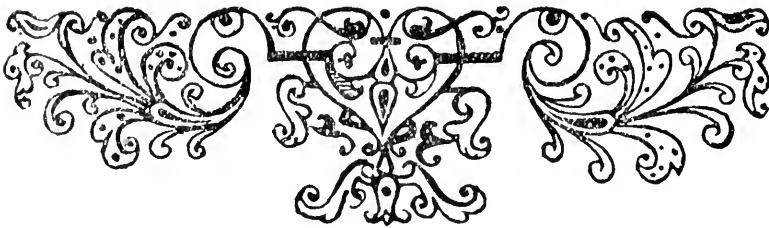
Begin at the figure 7.



Of compasse workes, or draughts.

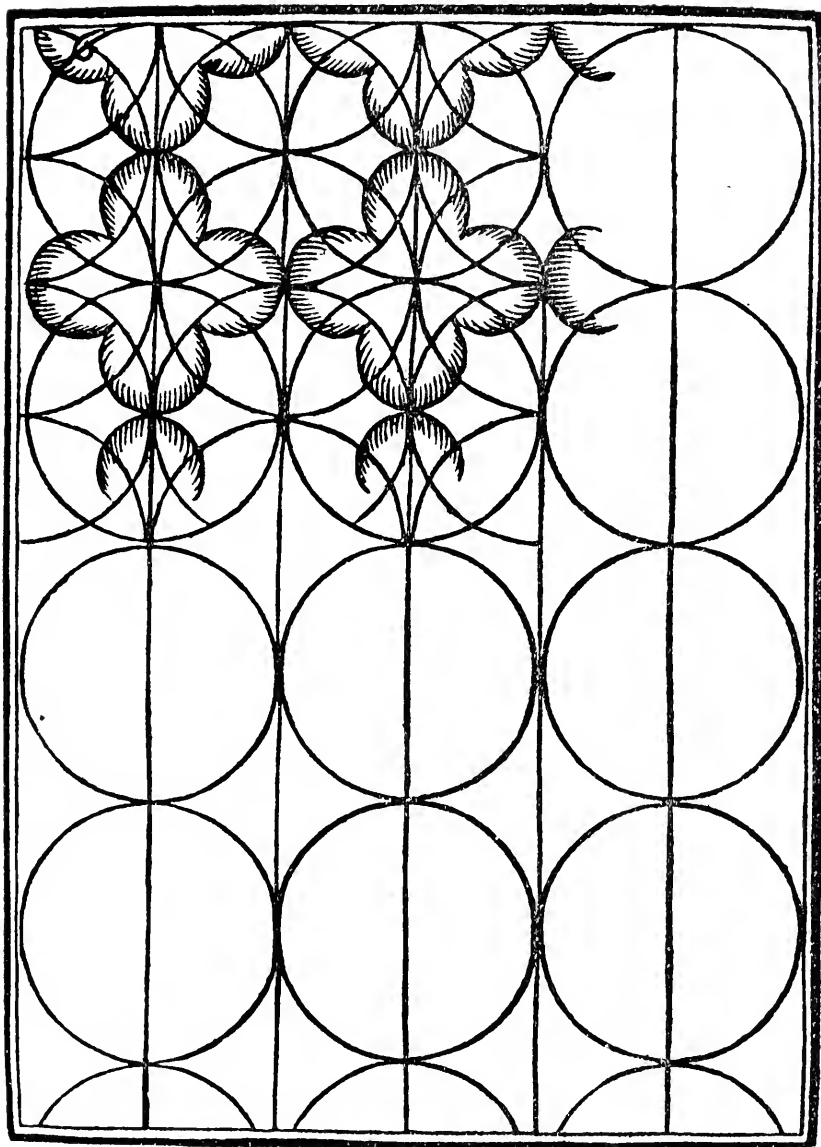
These draughts following, with their devisiō, are differing from the other: some there be of single compasse draught, others double: some be square, & cōpas declīng crosse draughts, and euen crosse and withall interlaced.

First then this single circle of this devisiō, as you see here set downe, is a very fine draught in glasse-worke, & the setting thereof, must begin at the figure 6. and the whole draught as it must show in glasse-worke, you shall finde in fol: 74. and in sundry other draughts of the like devisiō, as in fol: 87. very easie to be wrought, making exceeding pleasant worke.



.Begin

Begin at the figure 6.



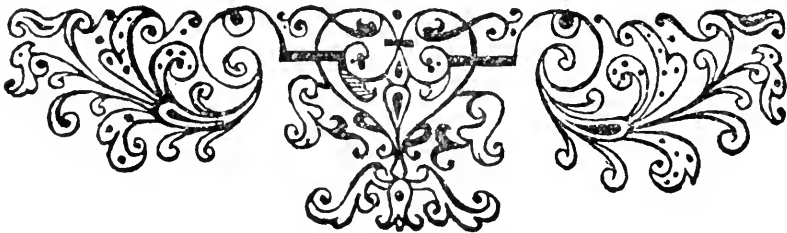
B₃.

of

Of interlaced devision.

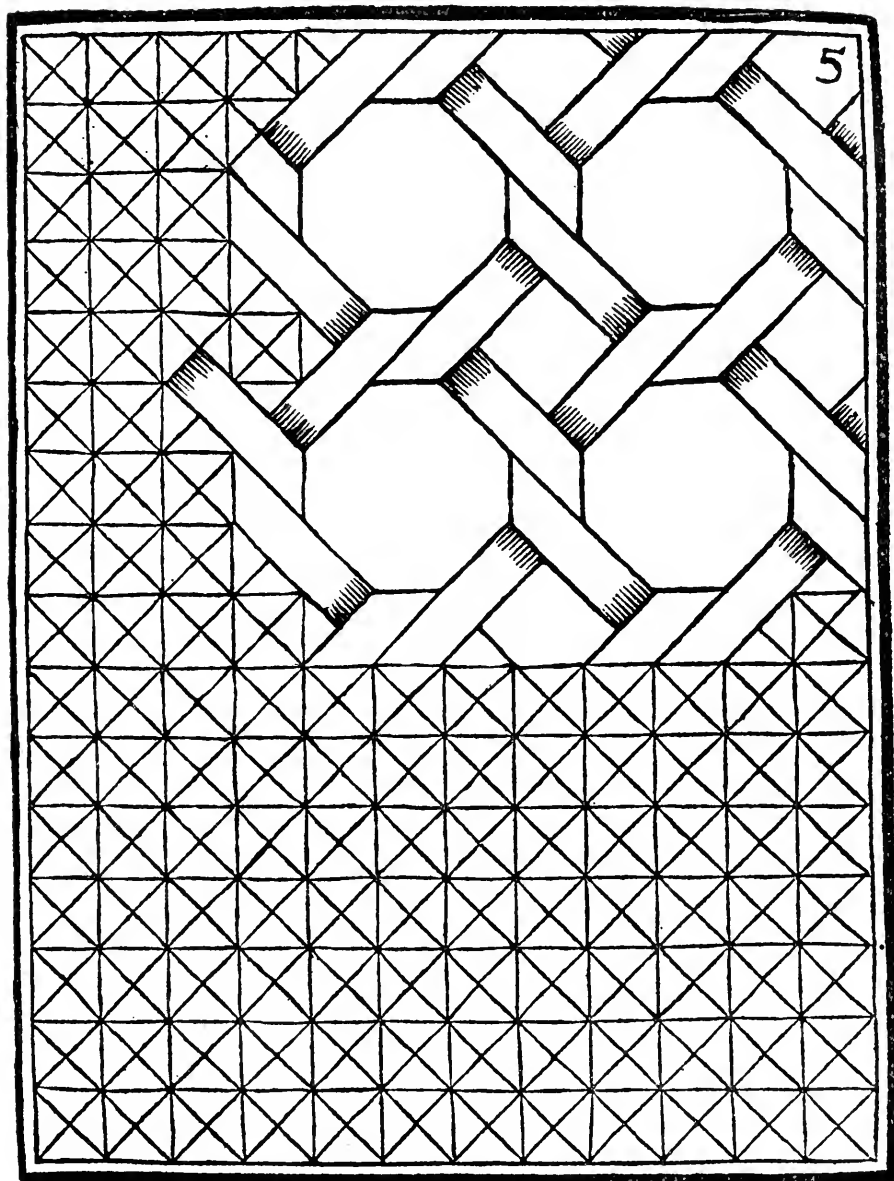
This interlaced devision, yeildeth very pleasant draughts, exceeding close, & strong: the setting of this worke on his devision, must begin at the figure 5. and from thence to follow out to the full quantity that your glasse-worke requireth: the principal draught hereof, you shall finde in fol: 47. with sundry other of the same measure, as in fol: 12. 27. 32.

Some other square draughts are here set downe of greater difficulty, but as they are somewhat more painefull in working, so are they more pleasant, & will make a delectable shew: which workes must haue his right devision, on the glasse table drawen with blacke, which will conduct the setting perfectly, making the most curious draught in this booke, easie, & plaine to be wrought in glasse.



Begin

Begin at the figure 5.



of

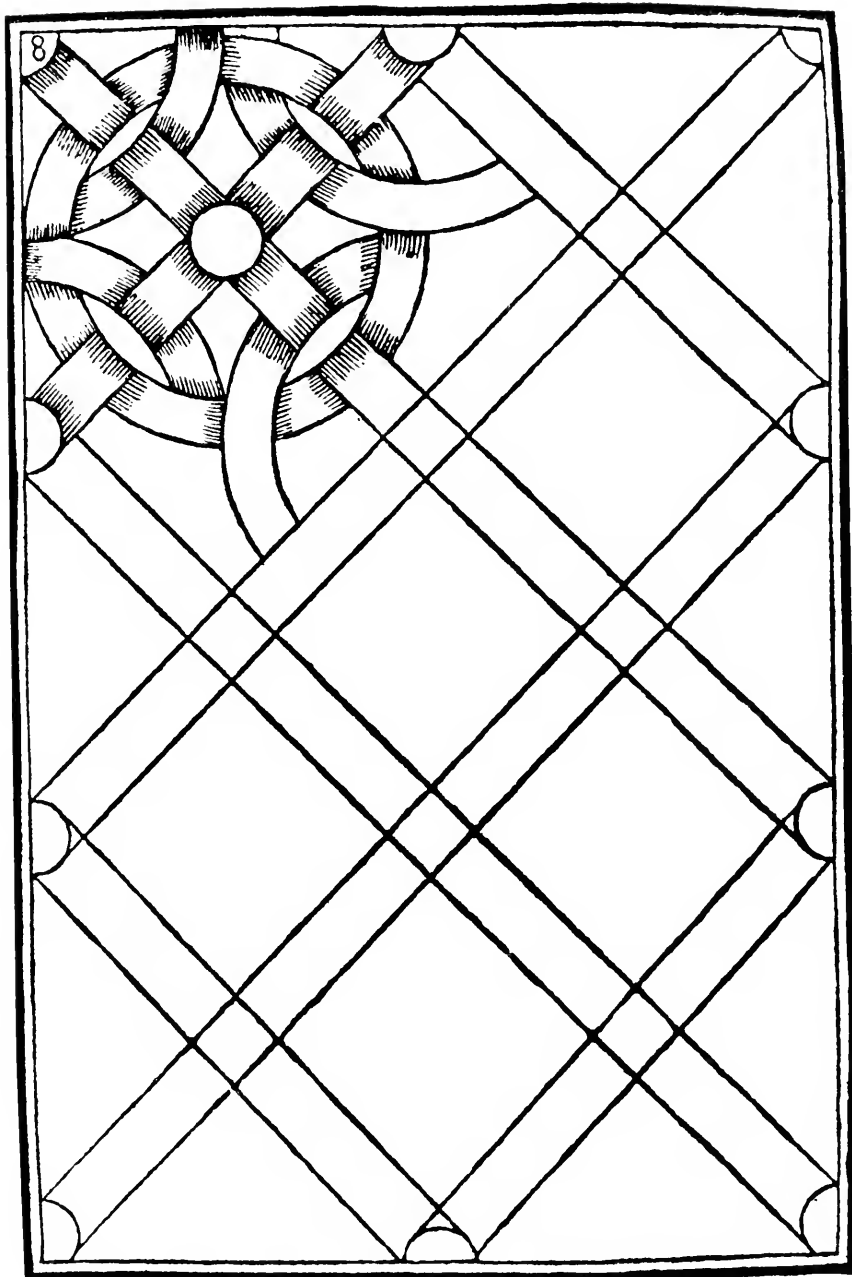
Of a declining crosse draught.

This Interlaced double circle, with double declining crosse deviation, must begin his setting, at the figure 8. and his whole draught standeth in tol: 86. and also others of the same deviation, with double circle, as in fol: 83. 82. 80. 76. & other places as may be perceiued.



Begin

Begin at the figure 8.



Cr.

Interlaced

Interlaced crosse draughts.

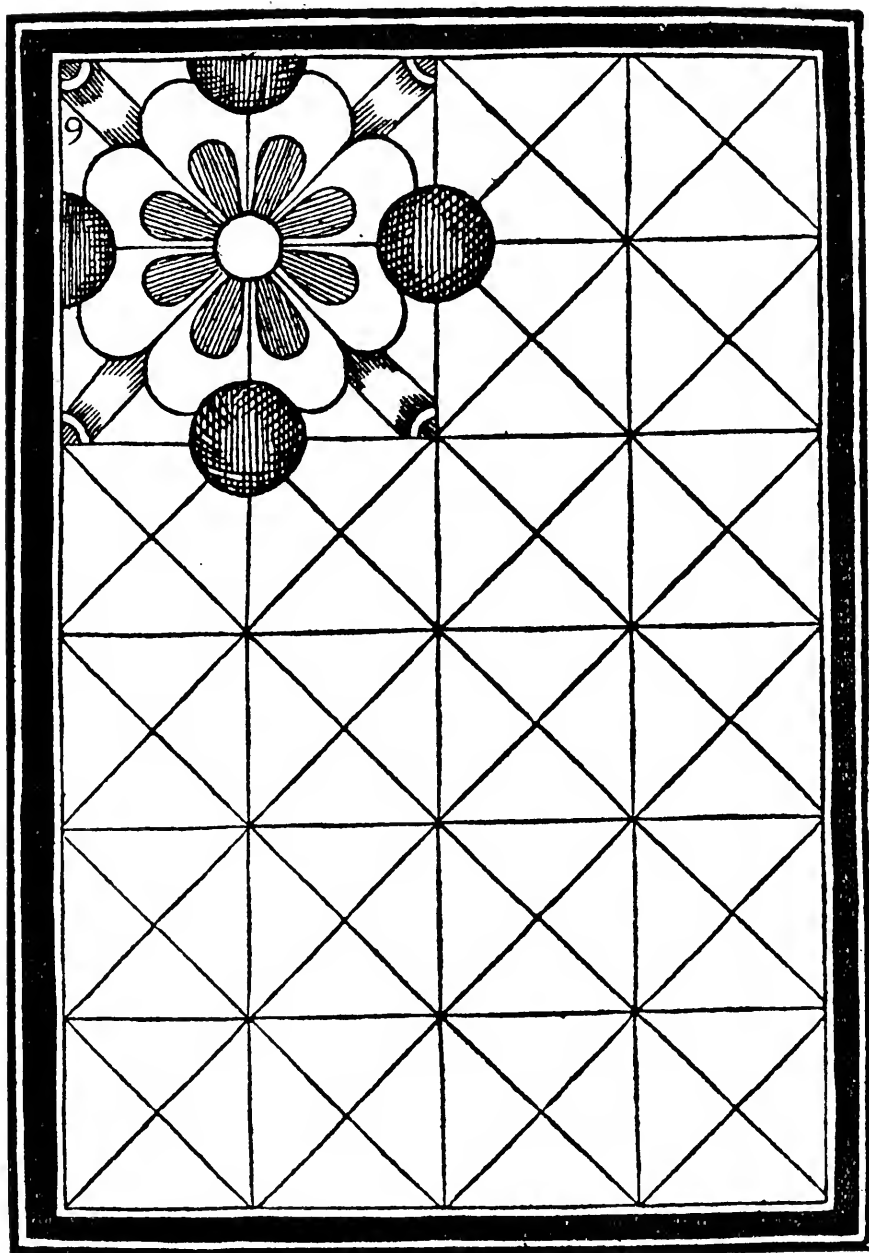
This as you perceiue is even crosse and declining draught, intermixed, exceeding pleasant in glasse-worke: his beginning of setting of your worke is at the figure 9. & the principall whole draught is to be found in fol: 71. as also a great many moe of the same deuision, in diuers other places.

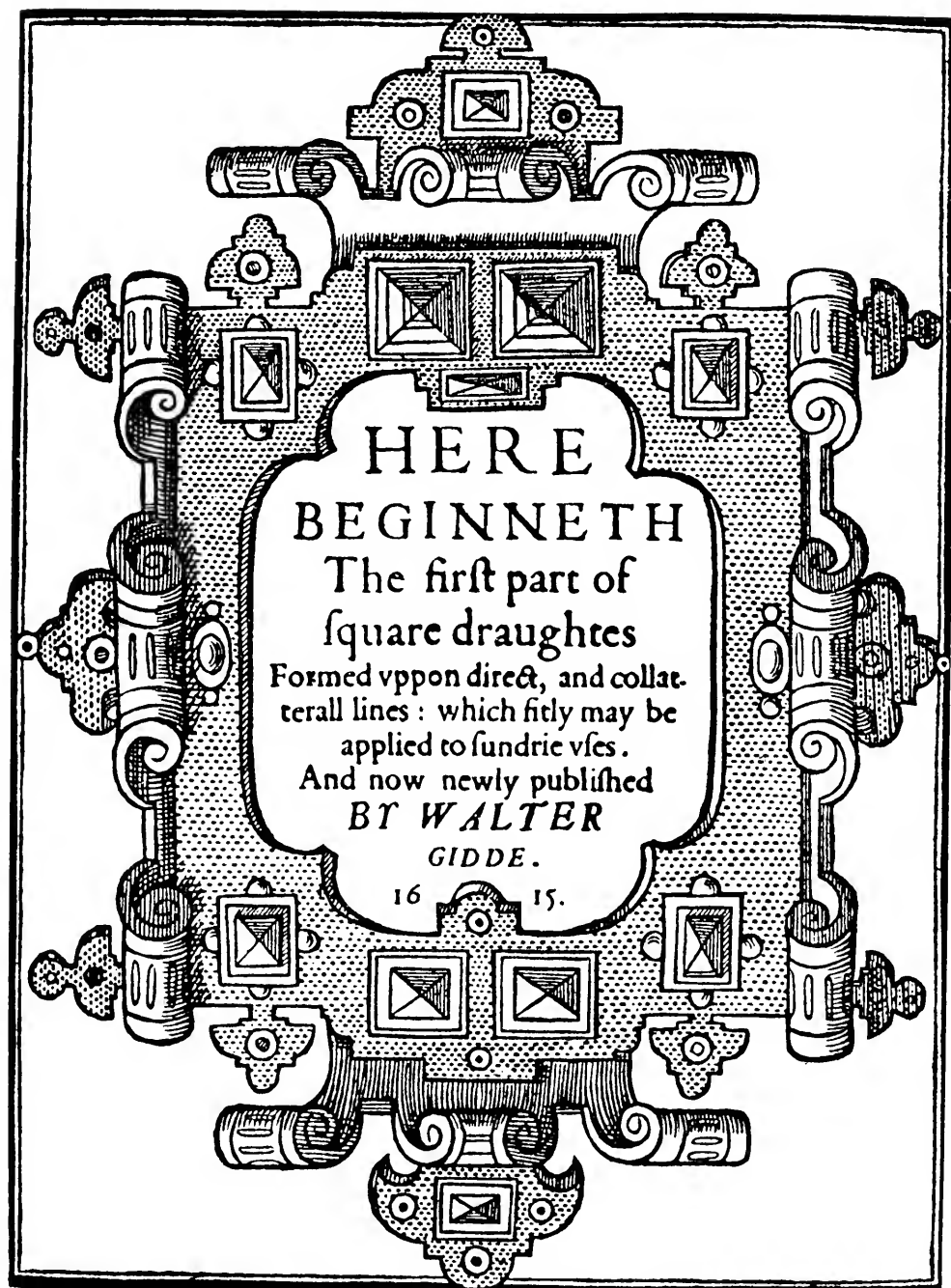
Other sorts there be of these circle workes, of greater difficulty, but the deuision thereof on thy glasse table, must be thy helpe to make it easy, as is before méntioned in the square draughts

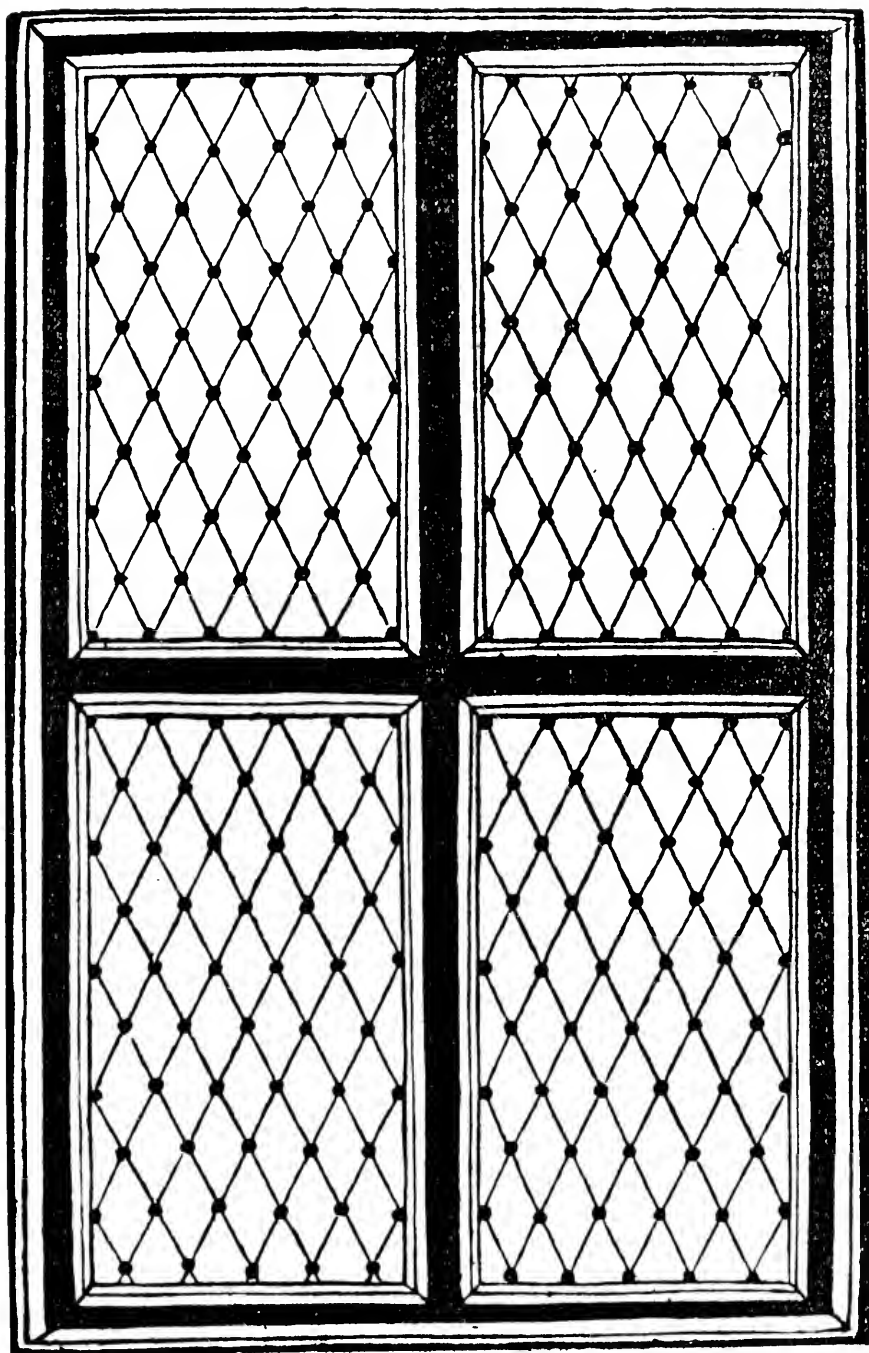


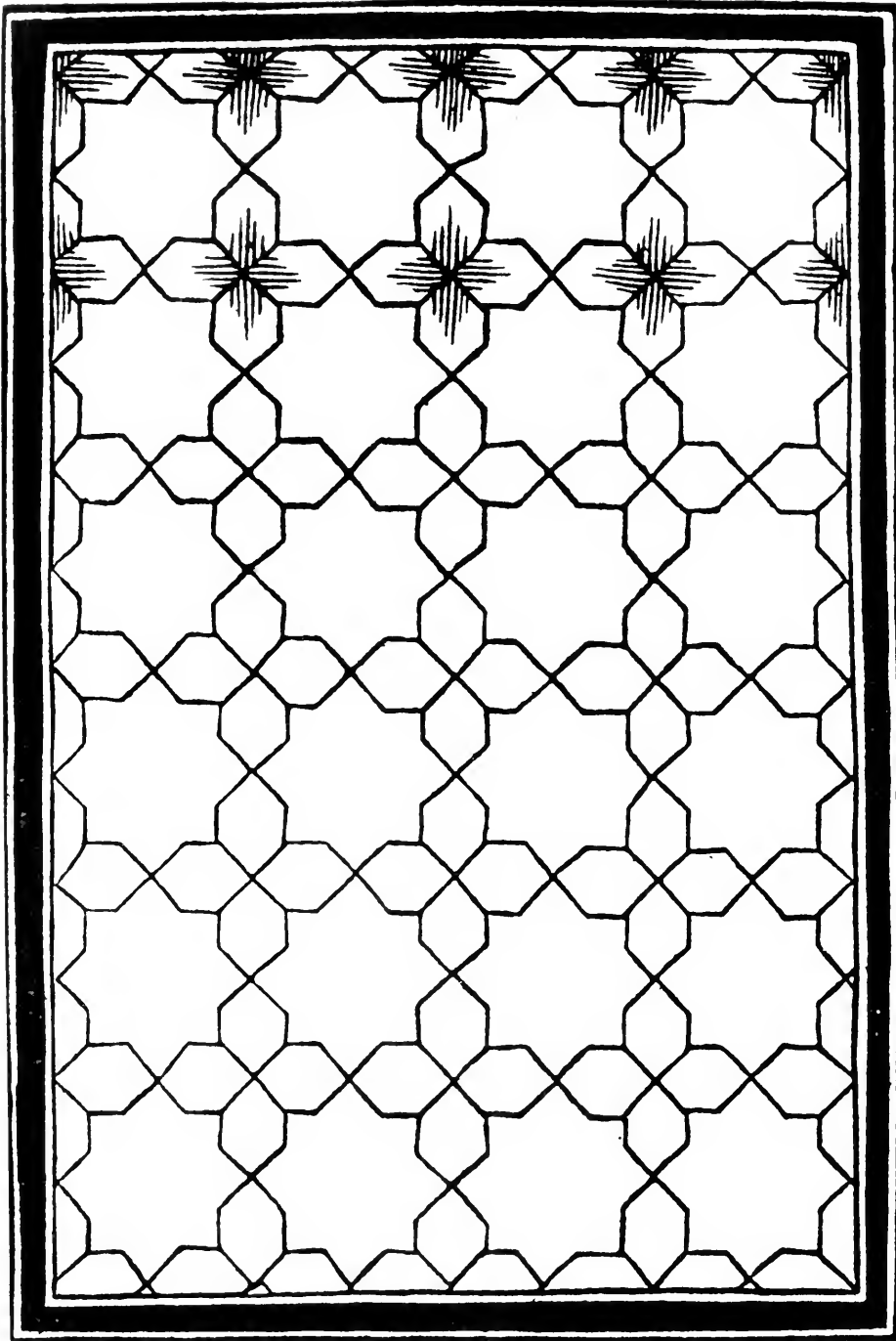
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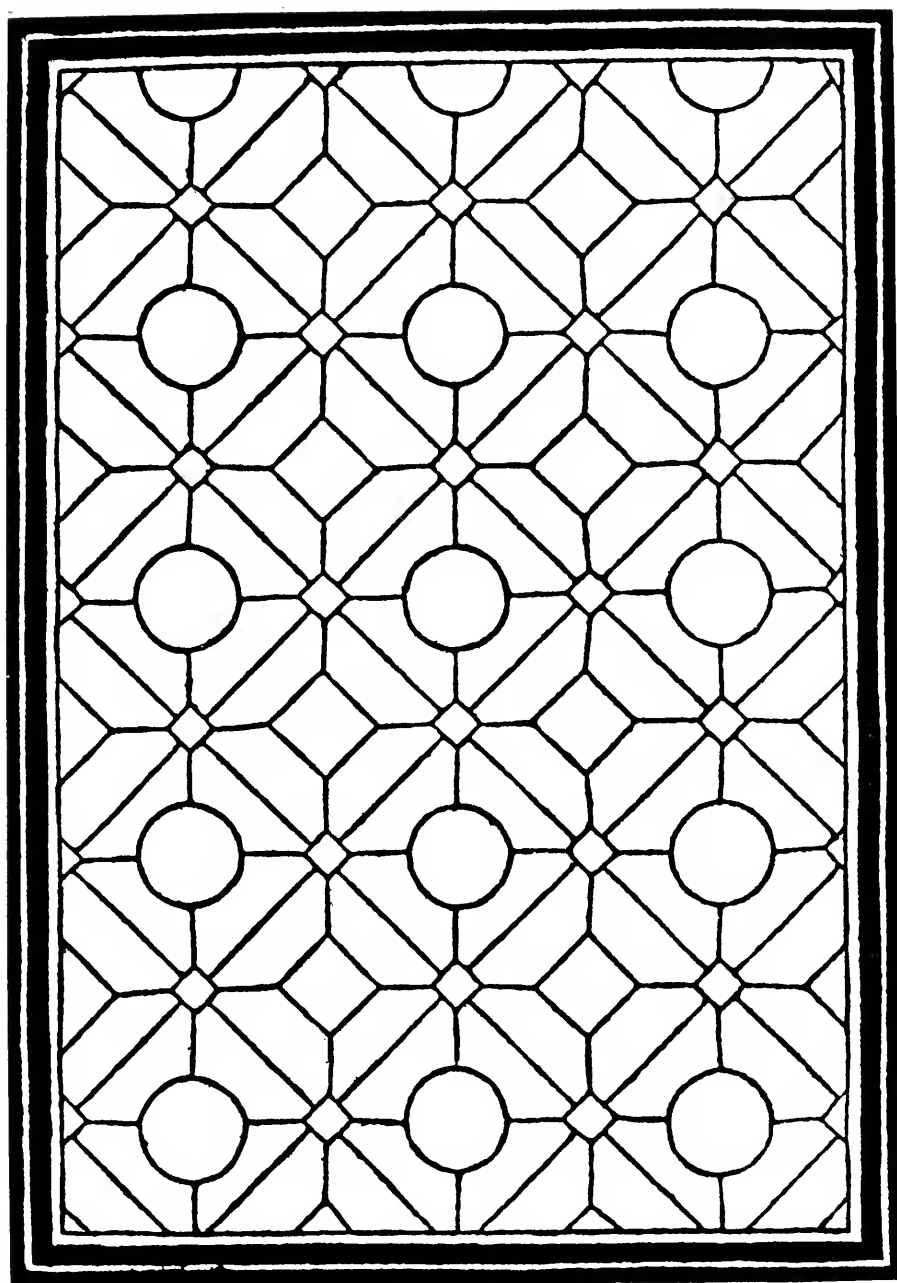
Begin at the figure 9.



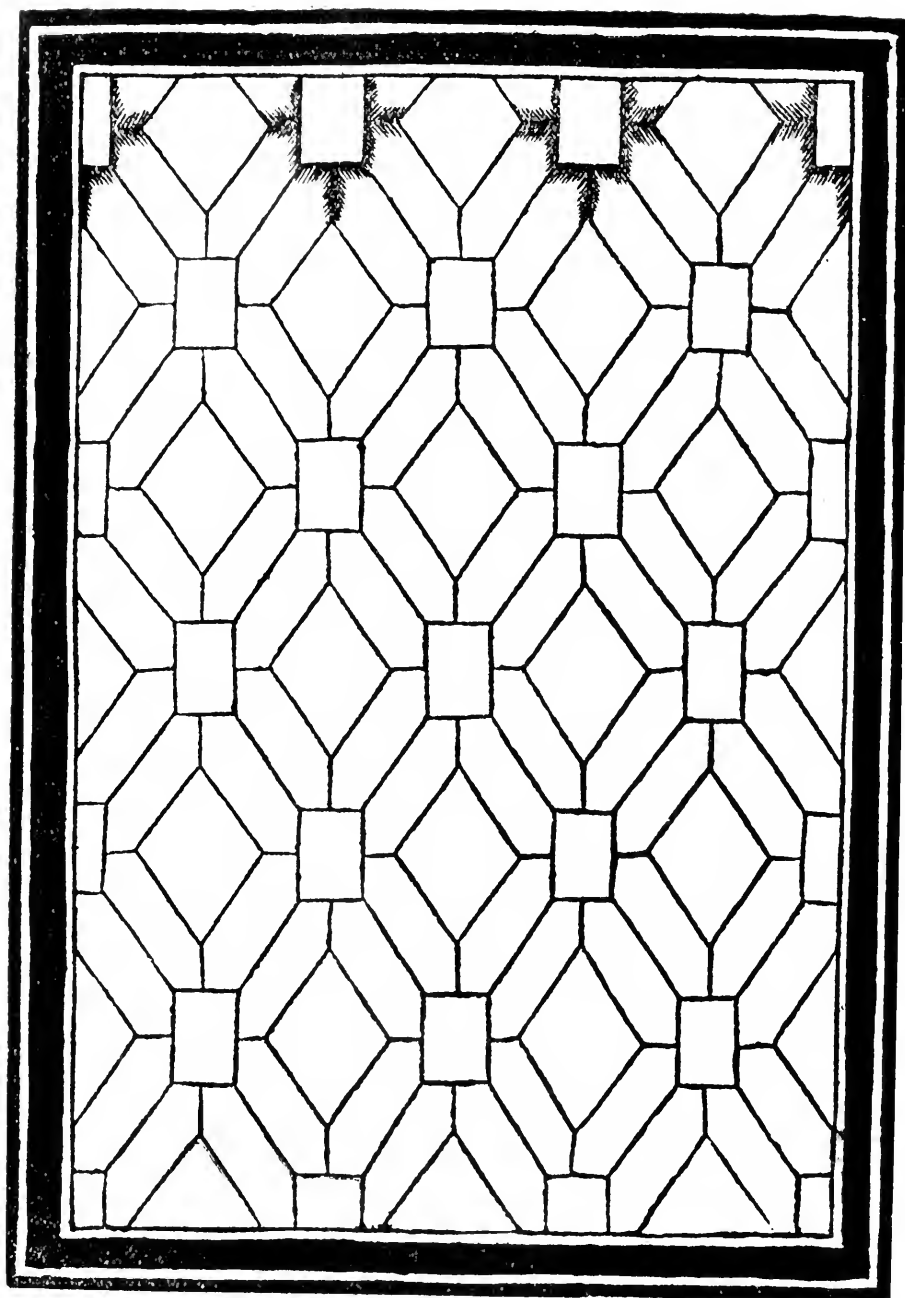


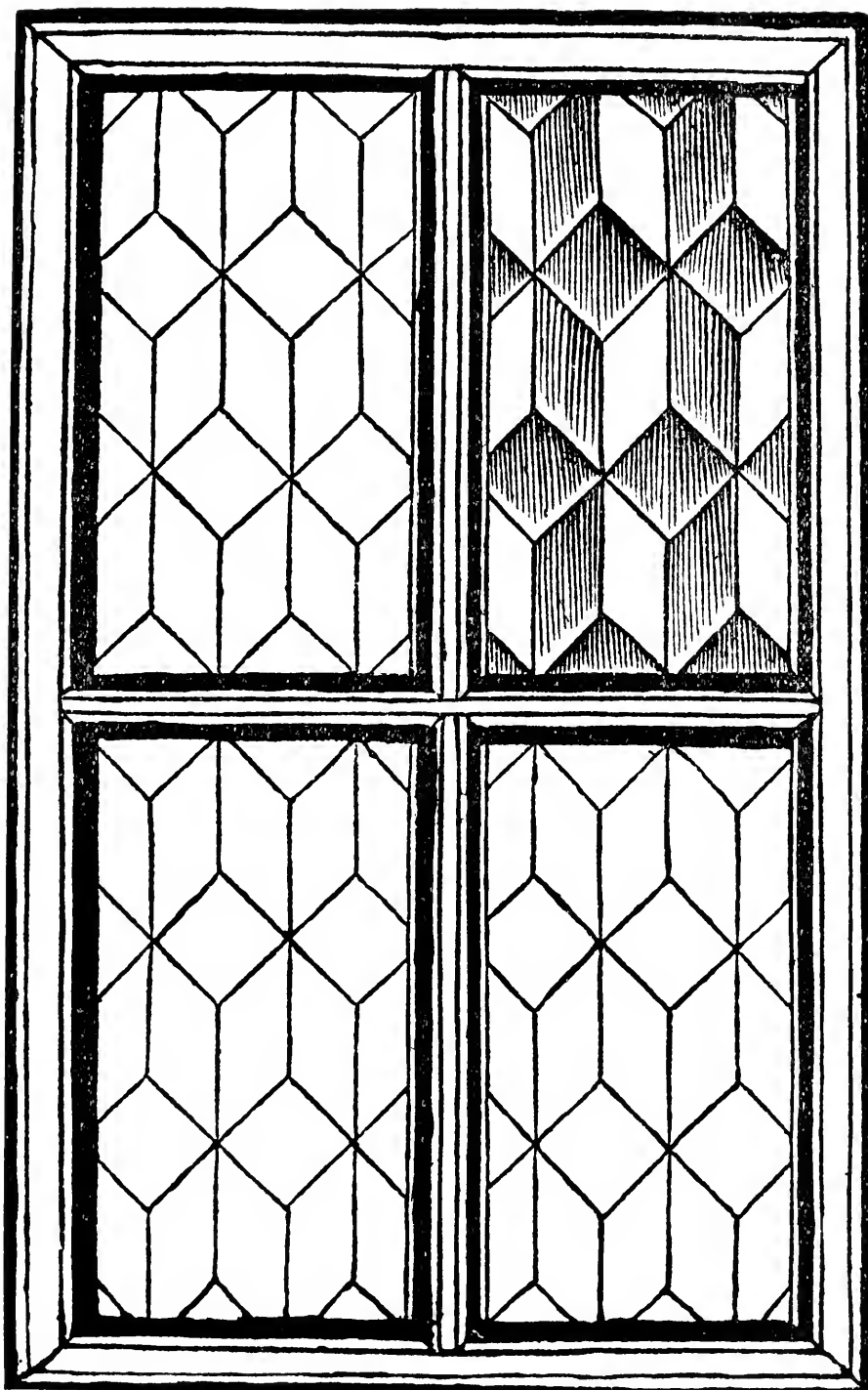


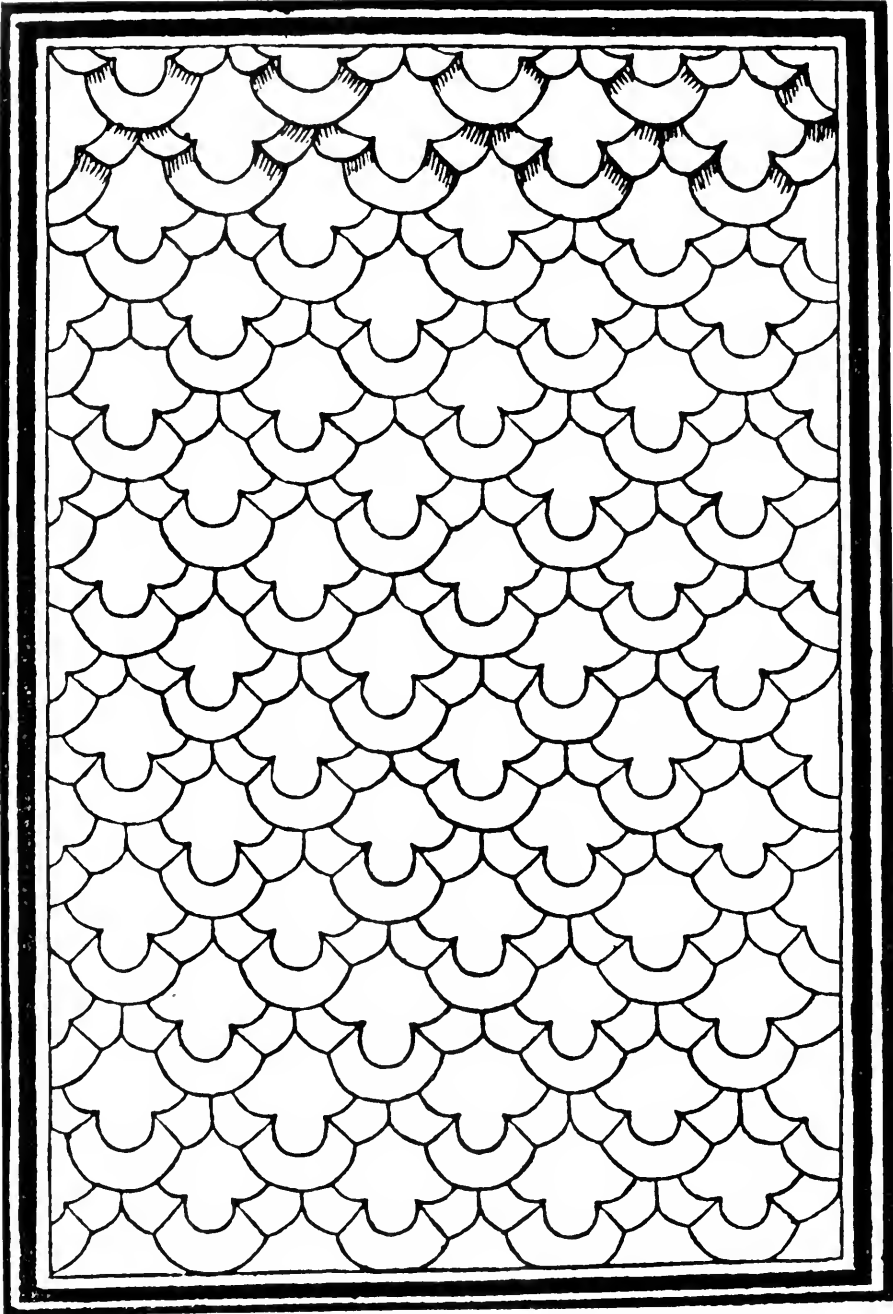


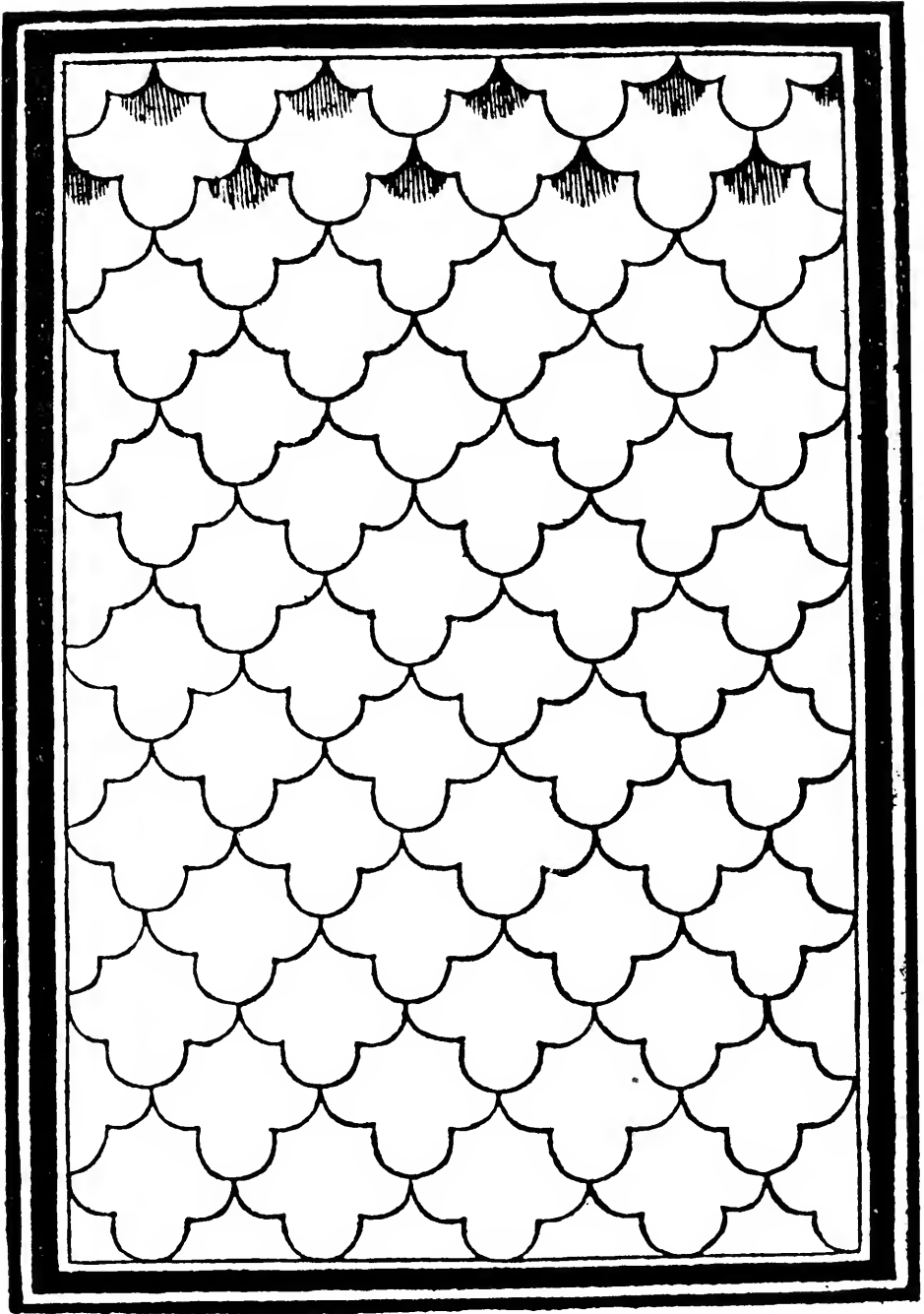


D 1.

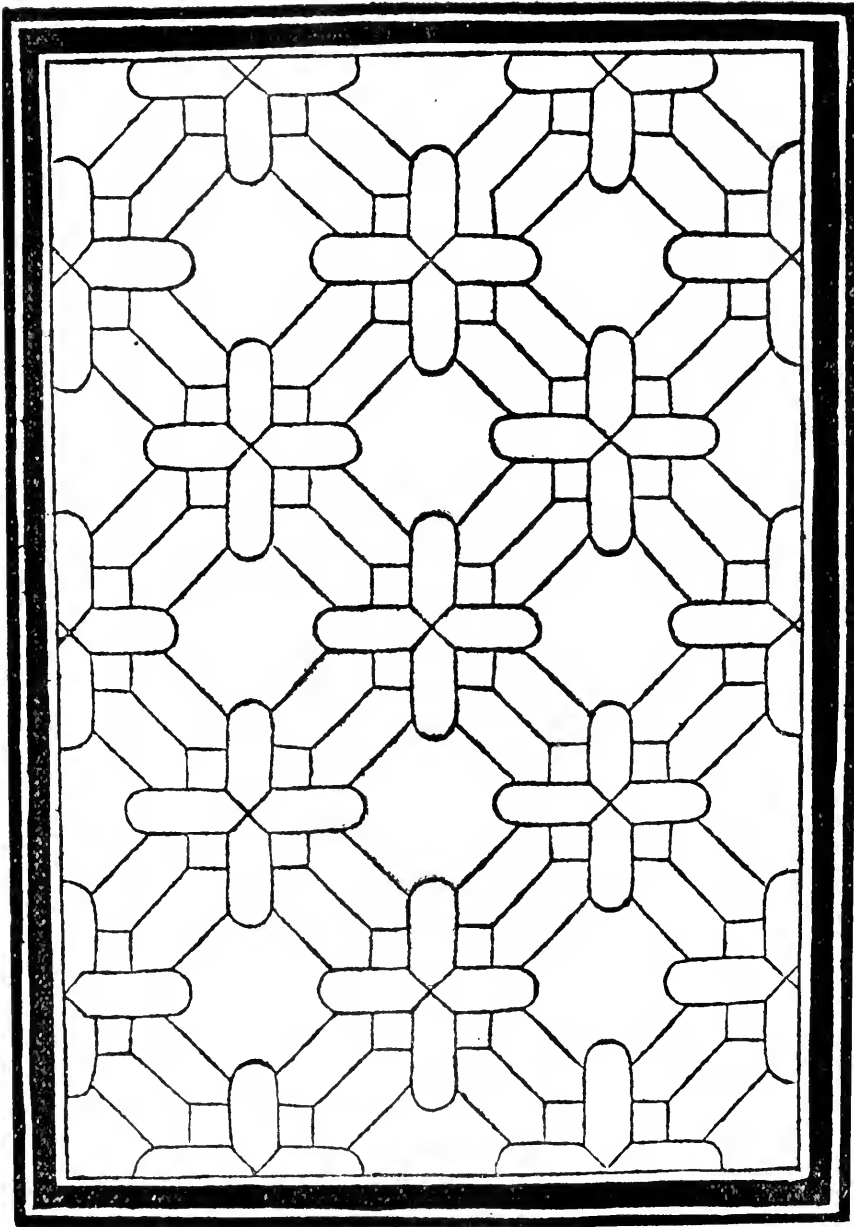


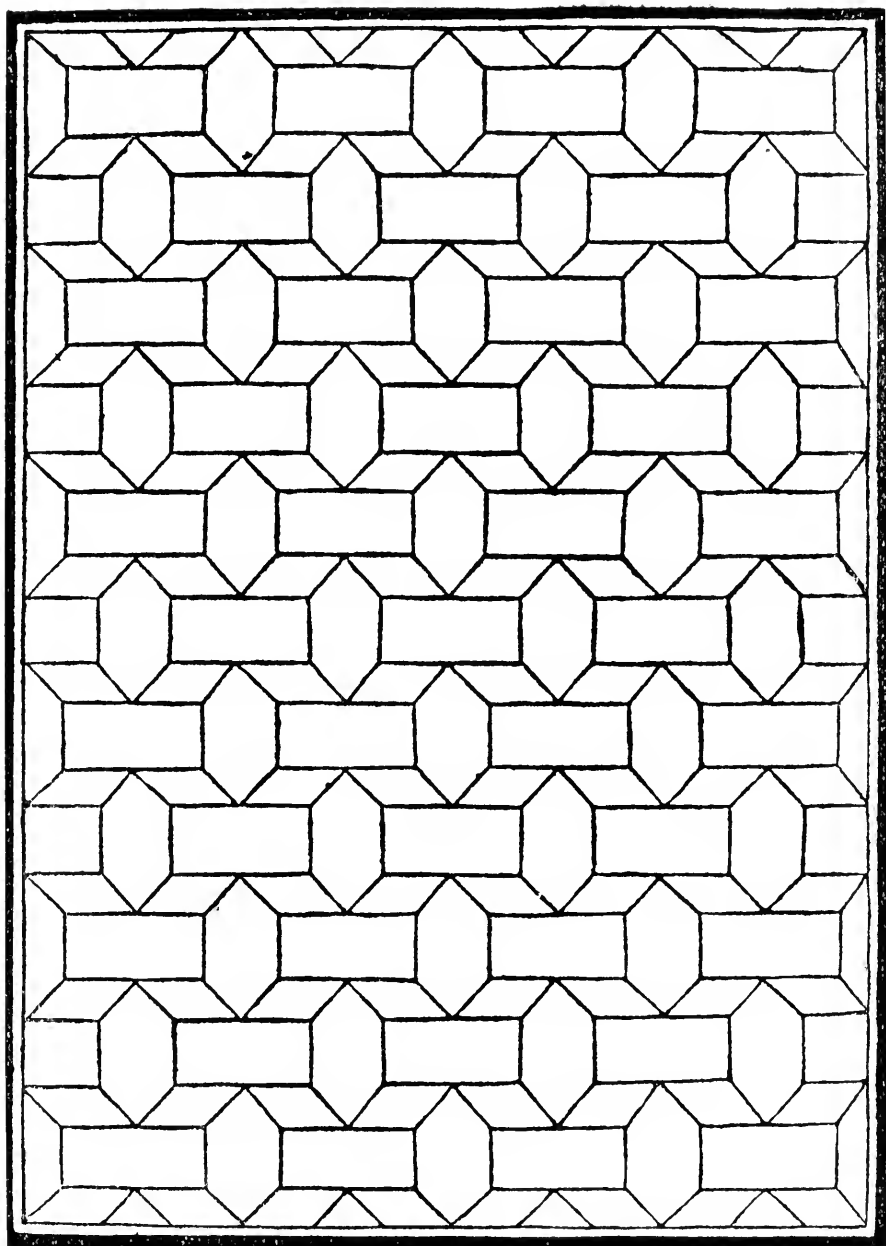


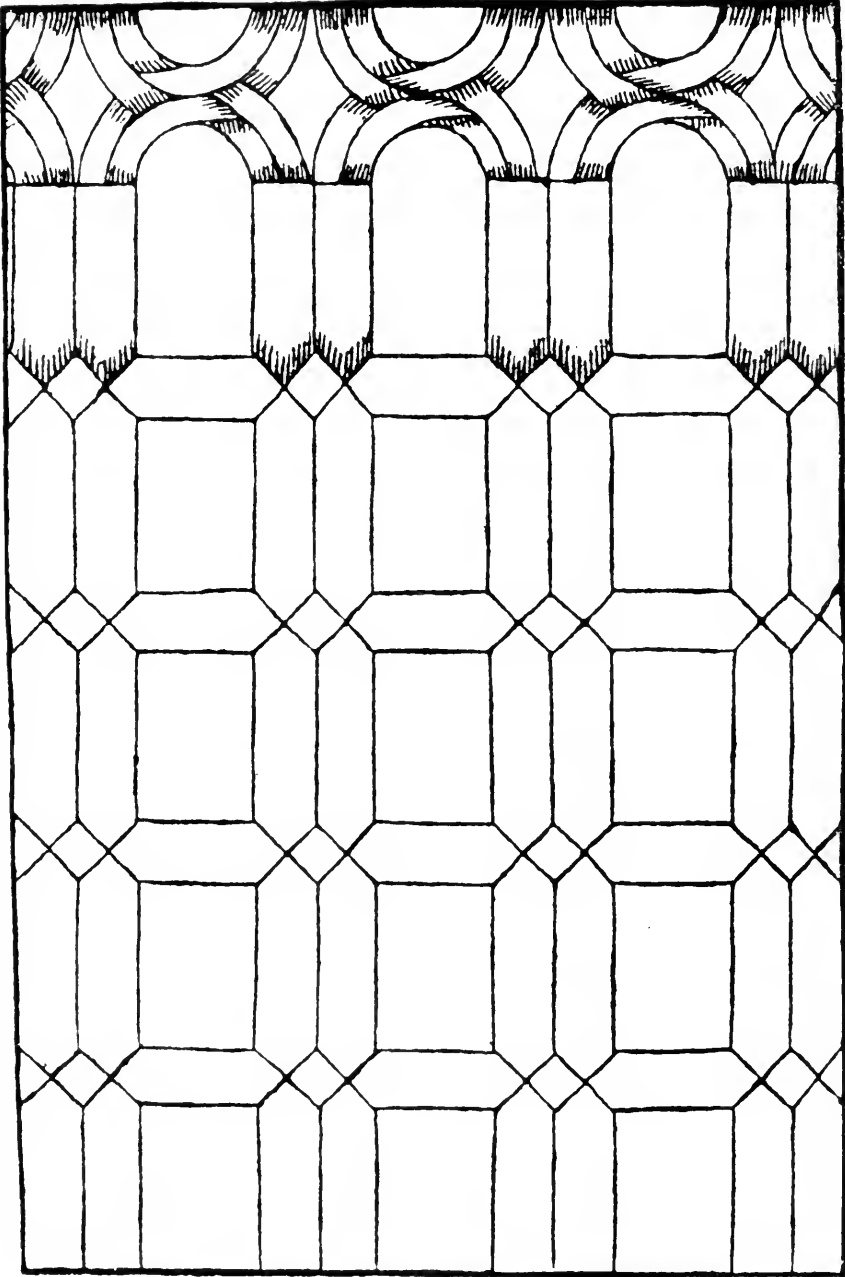


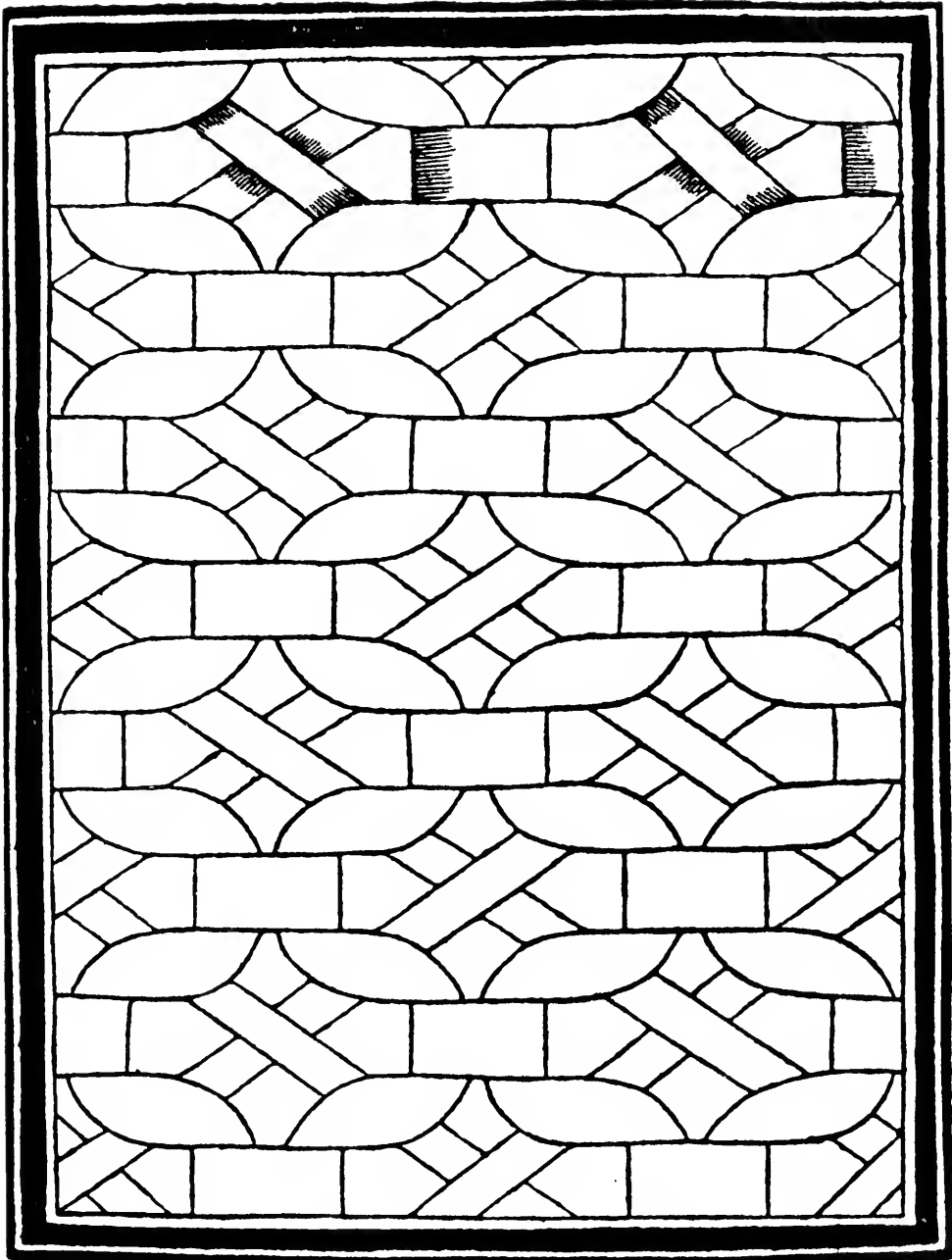


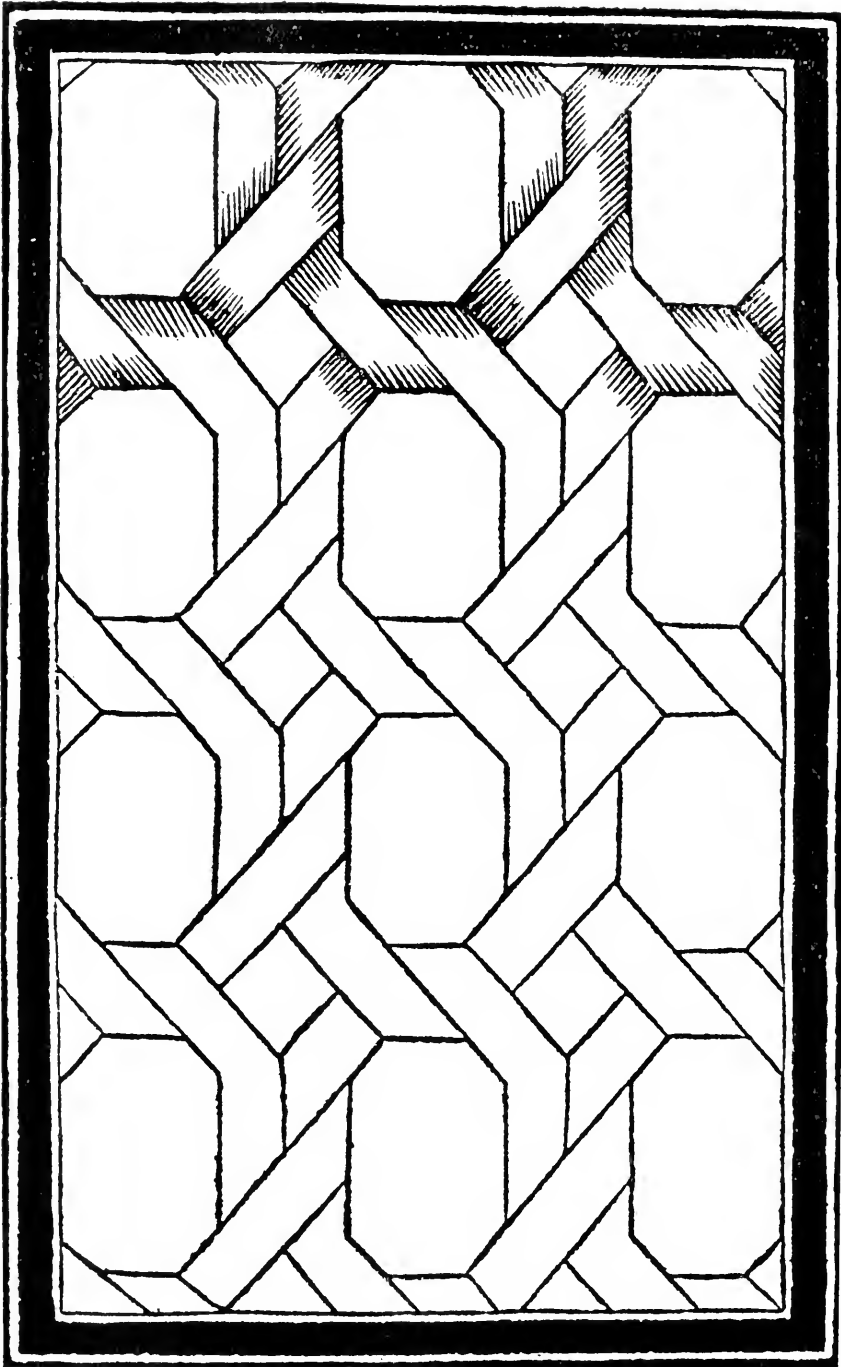
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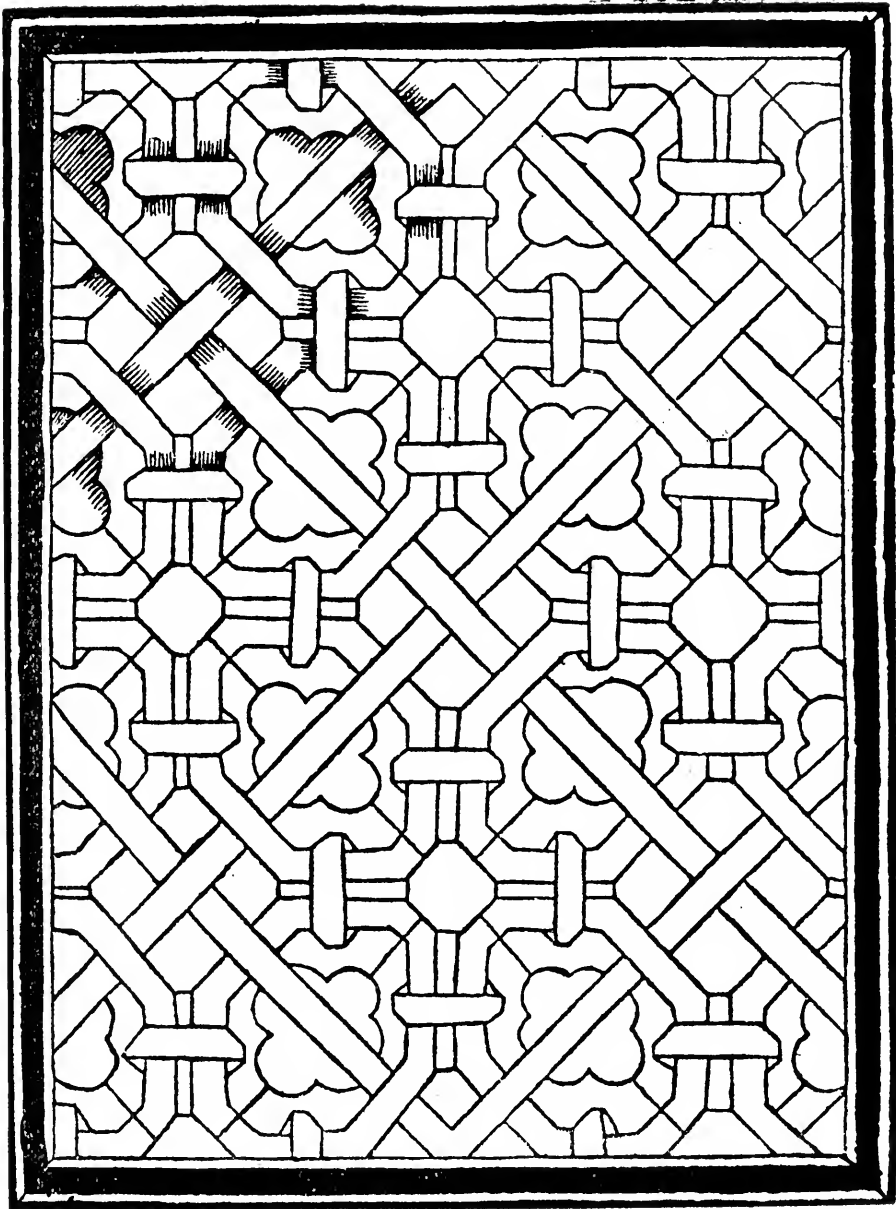


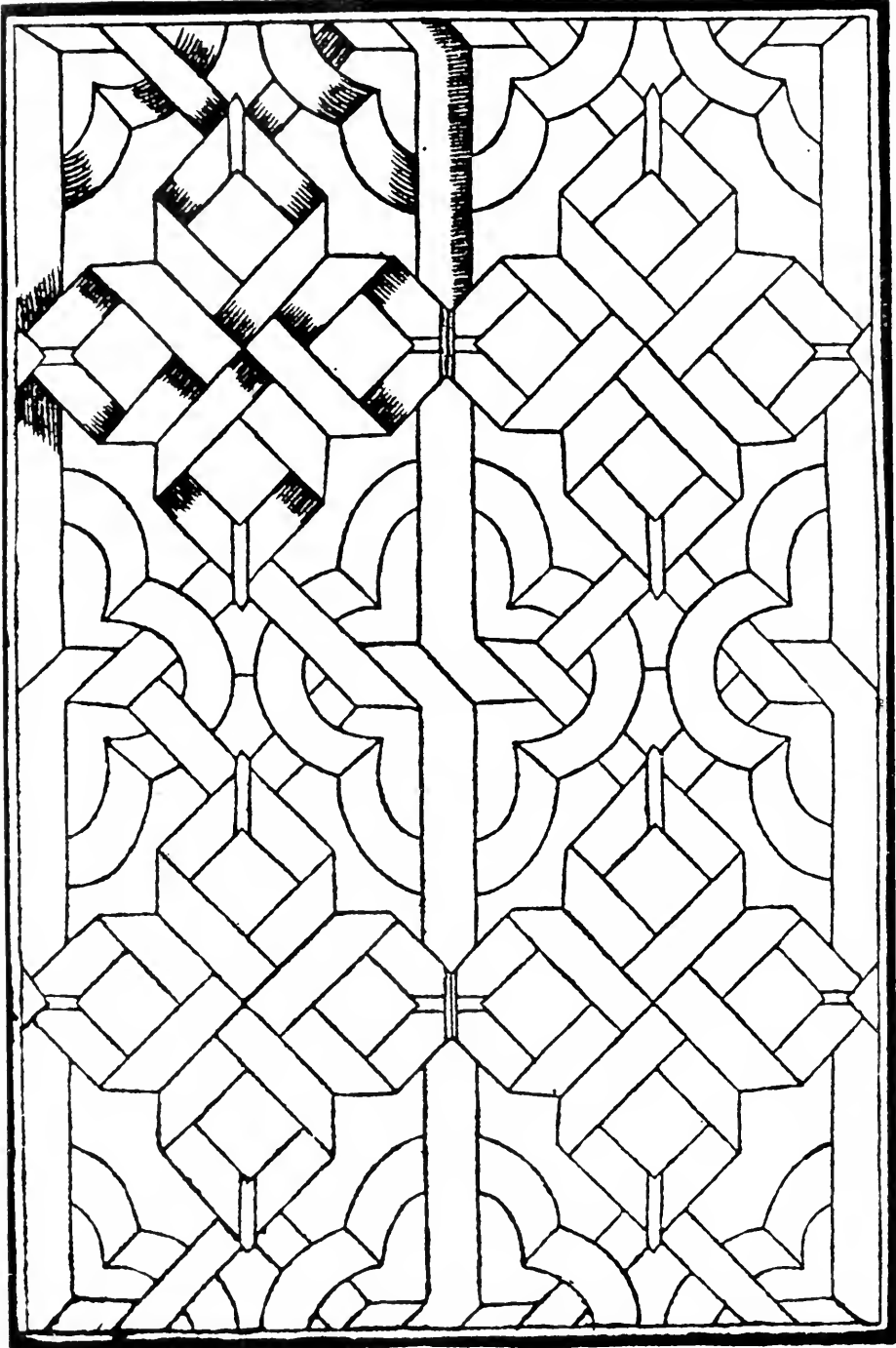


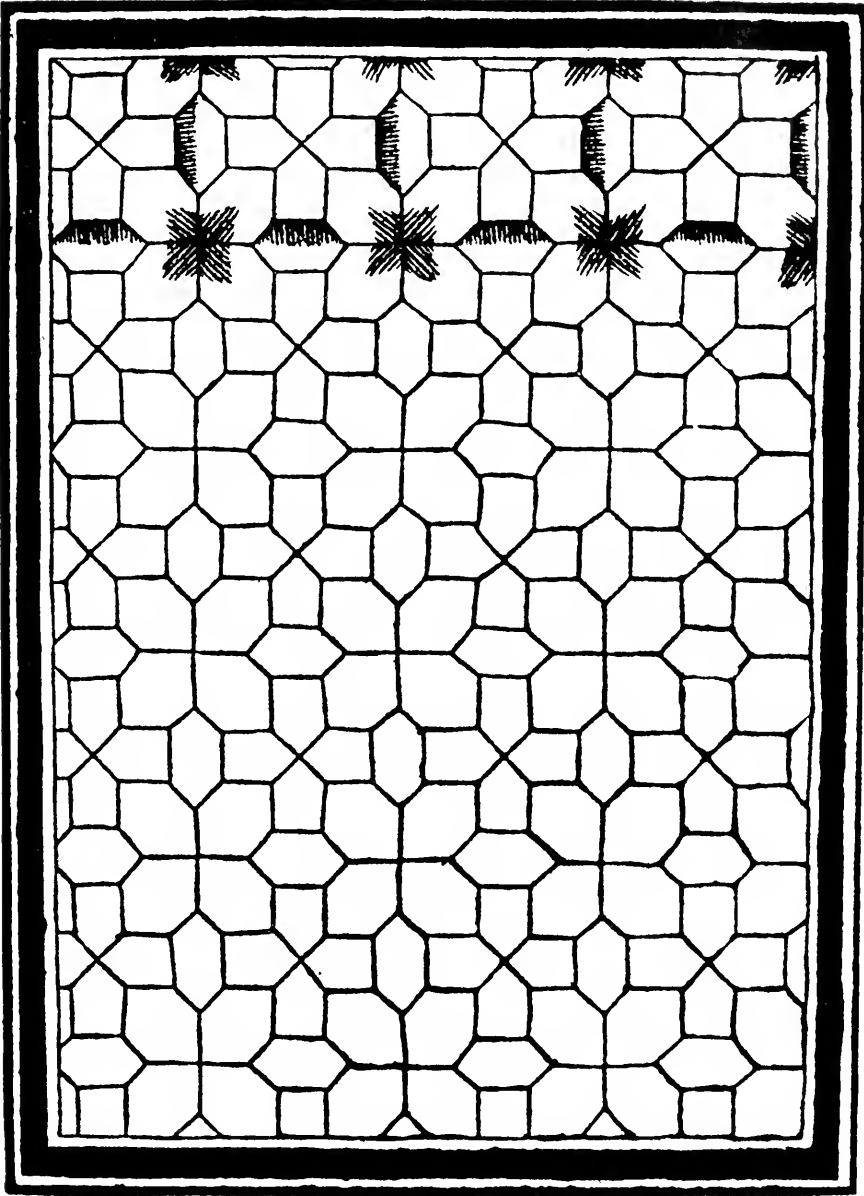


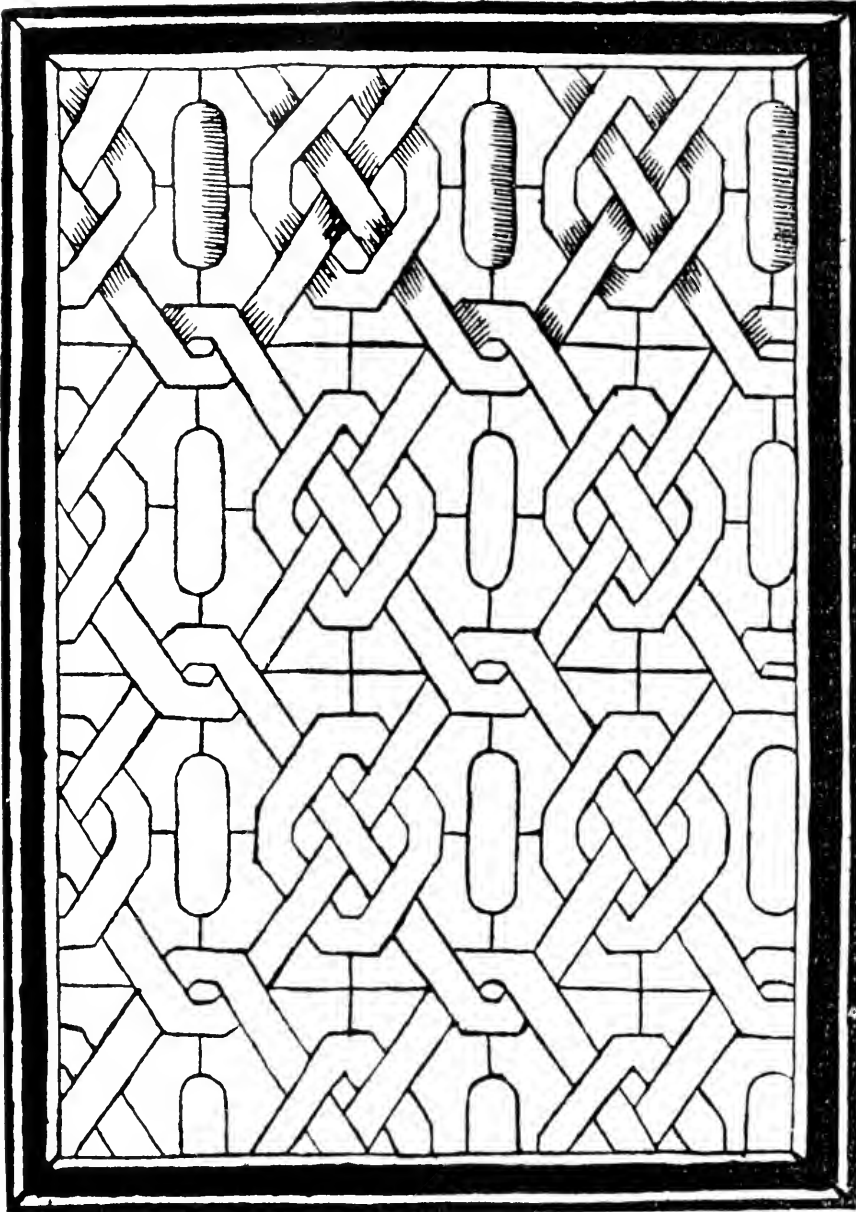


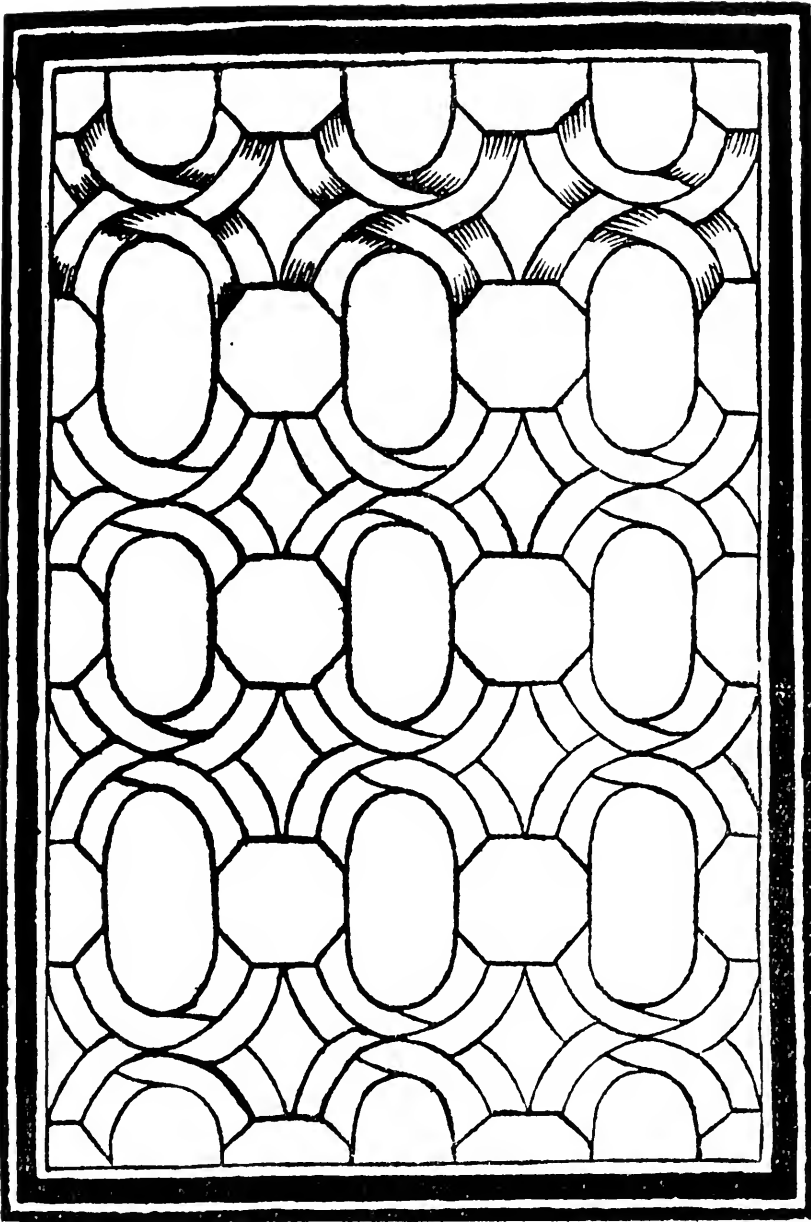


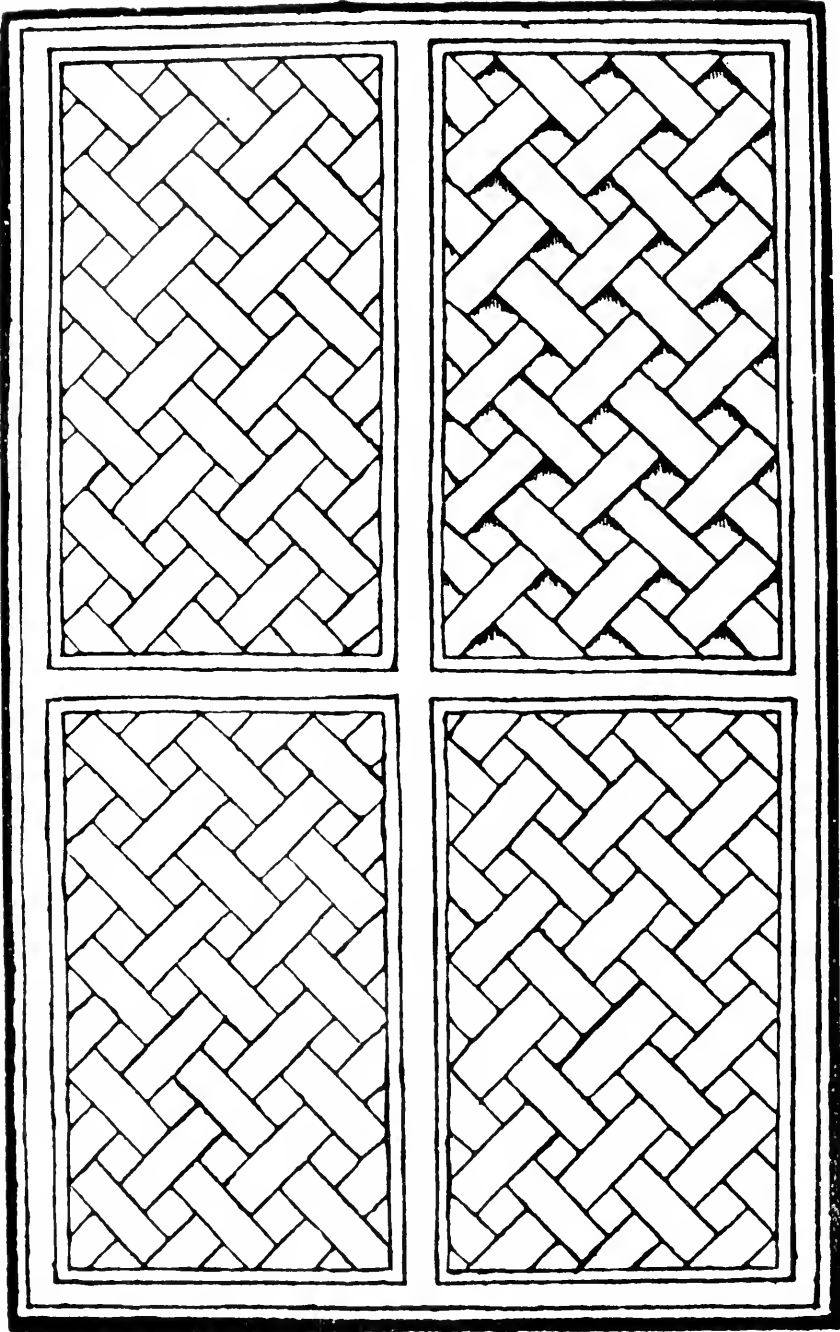


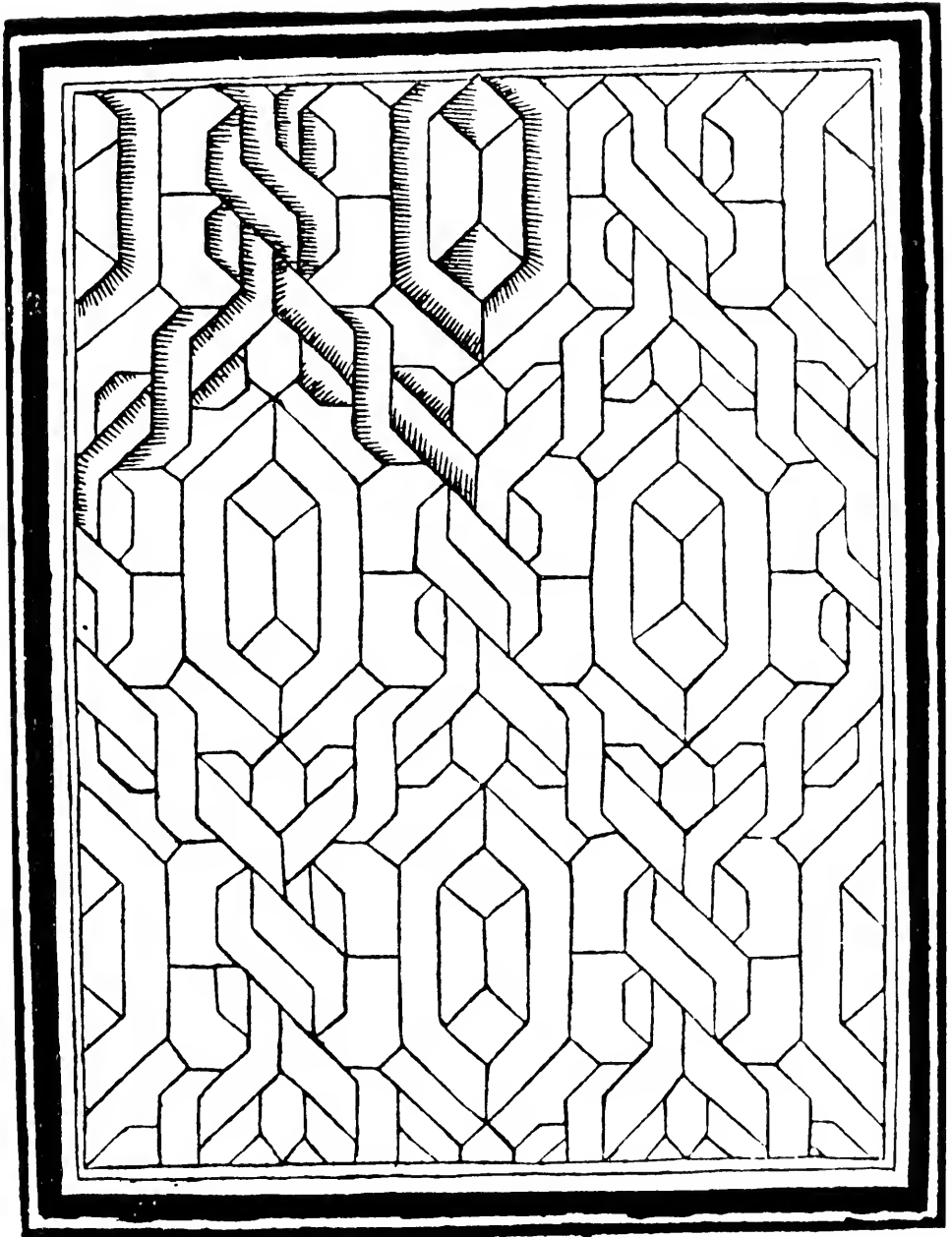




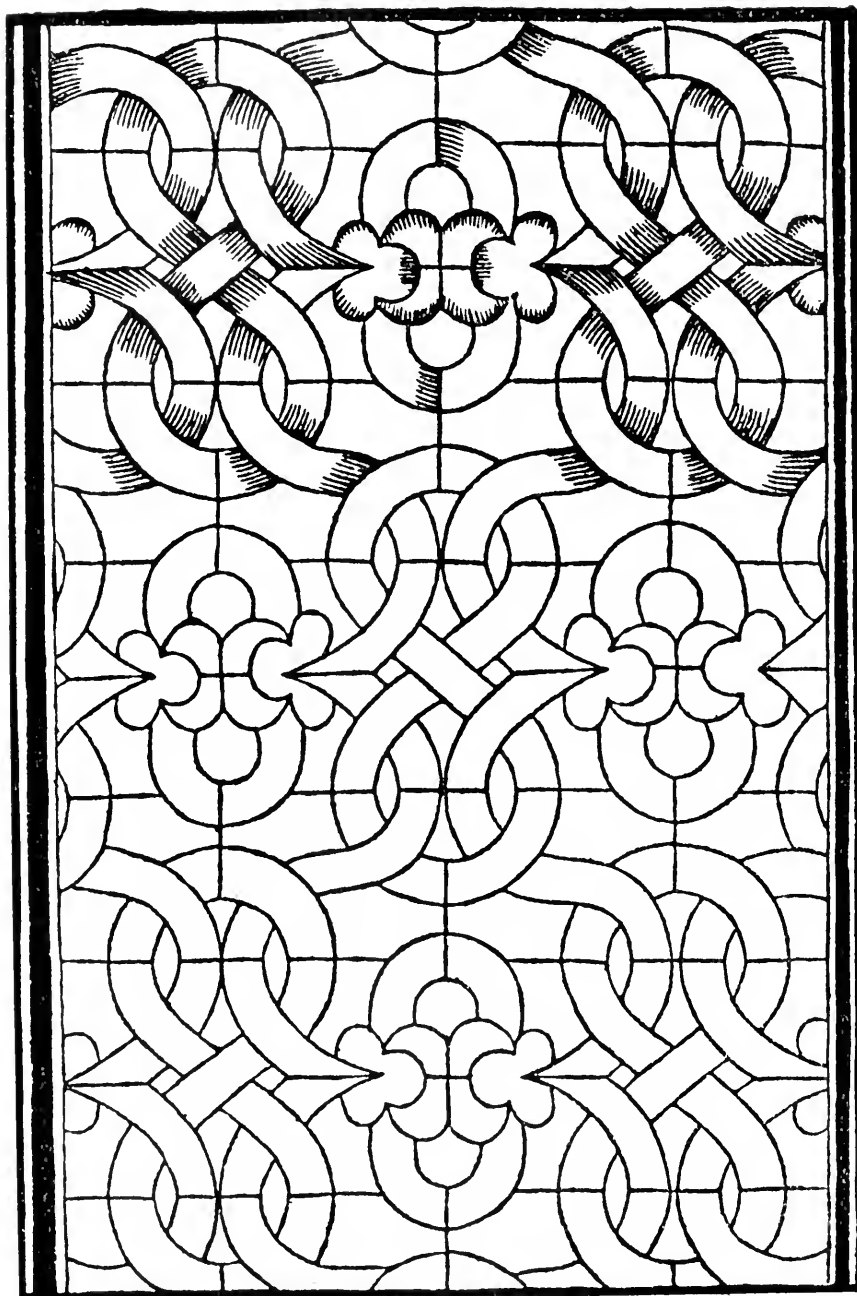


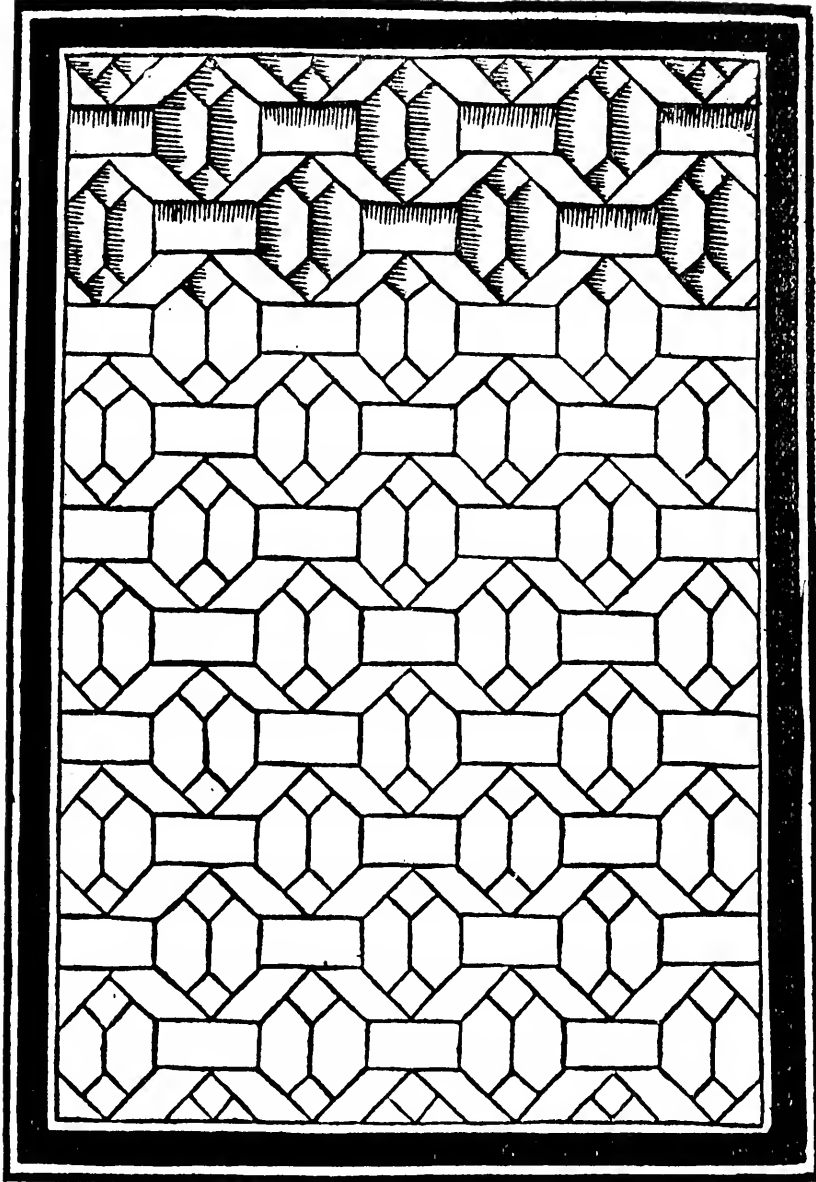


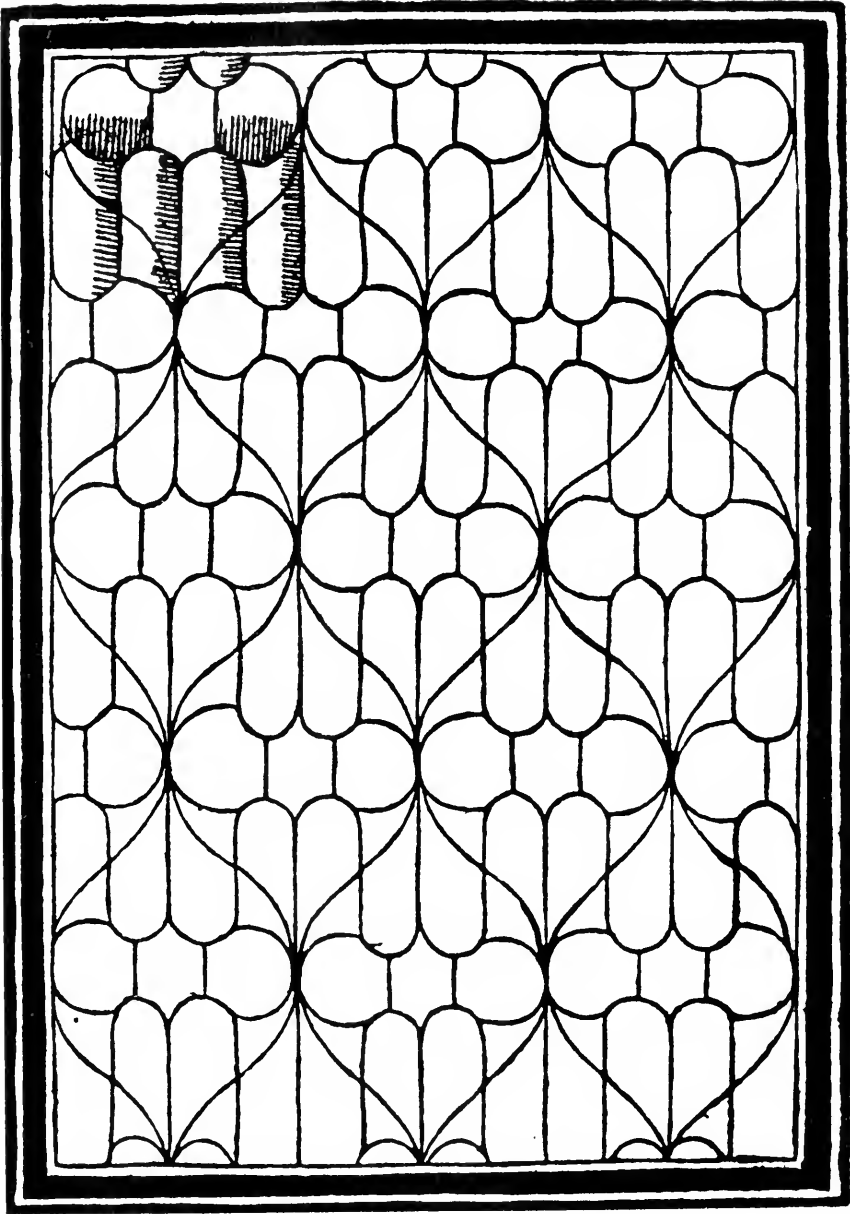


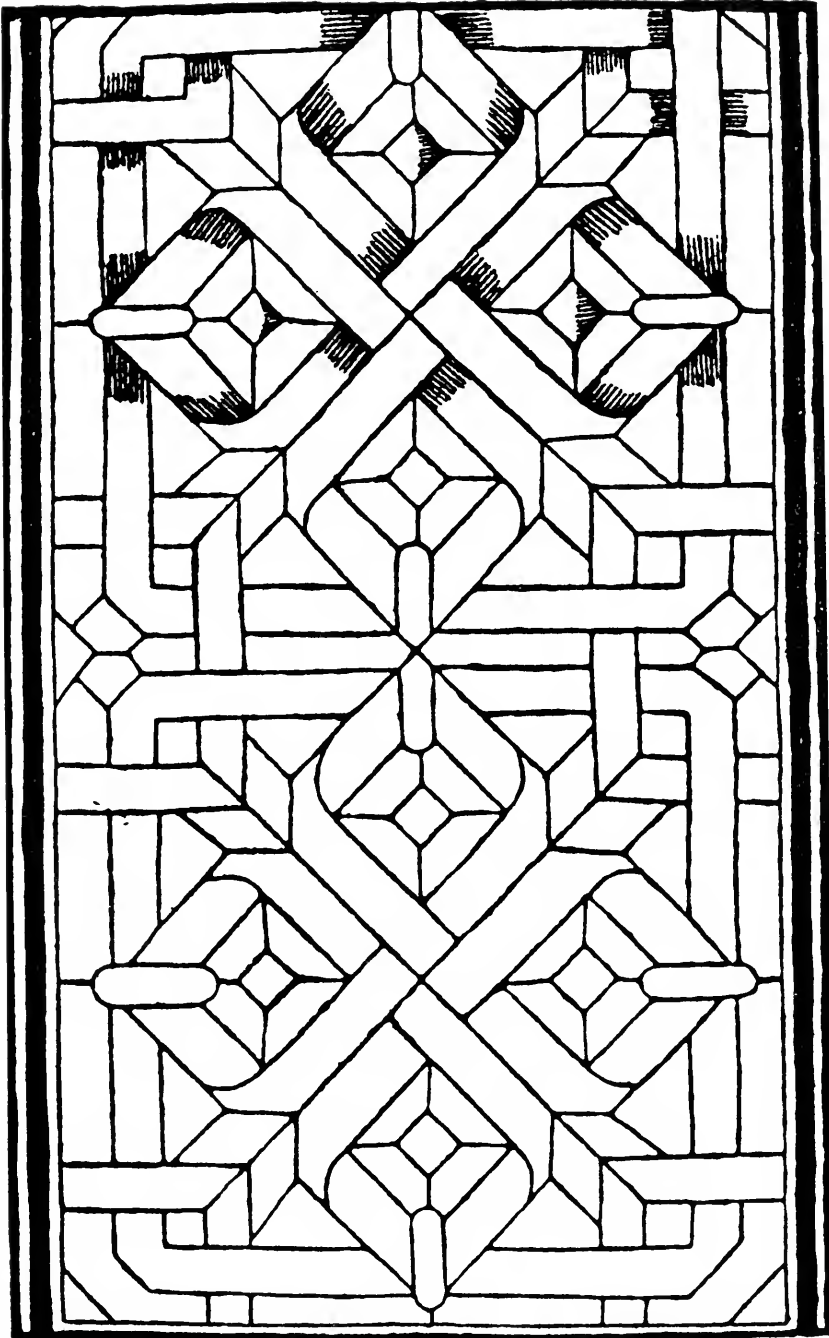


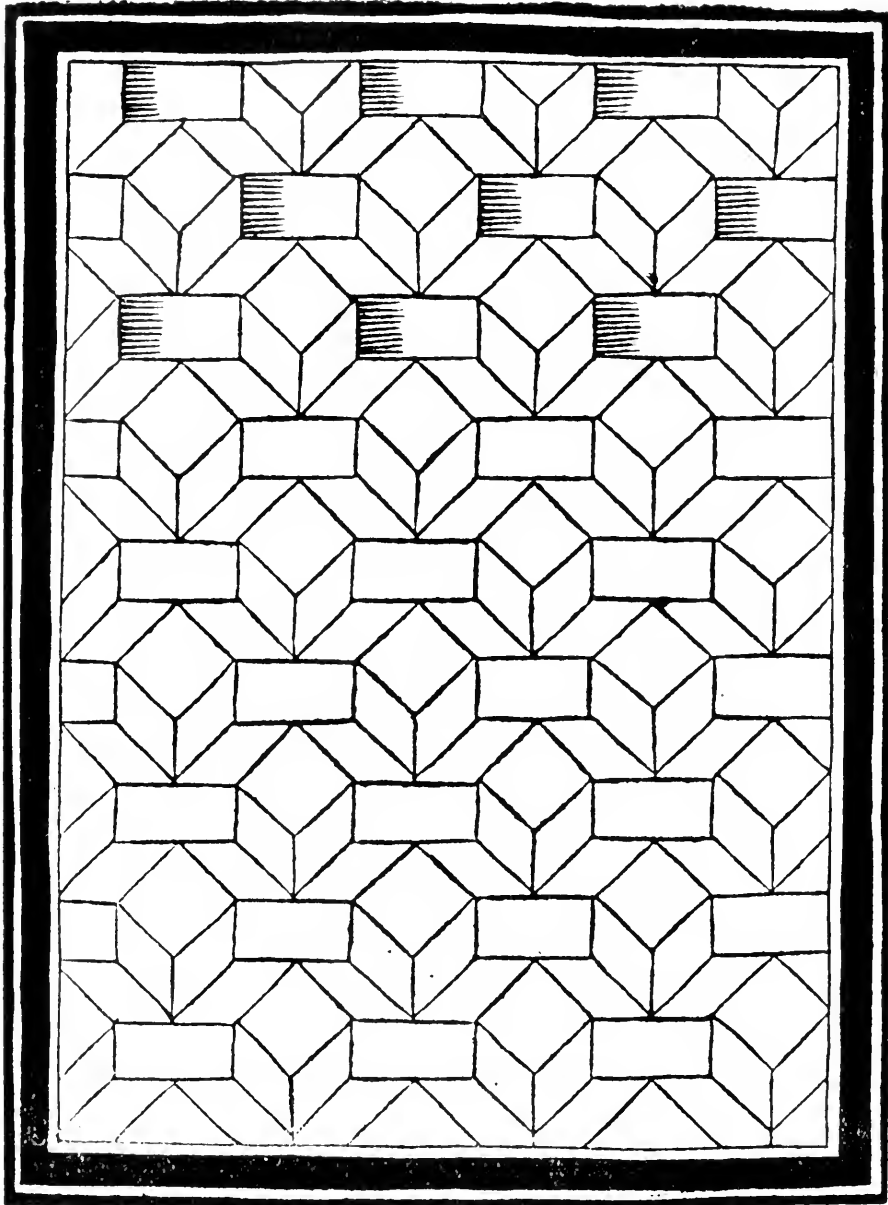
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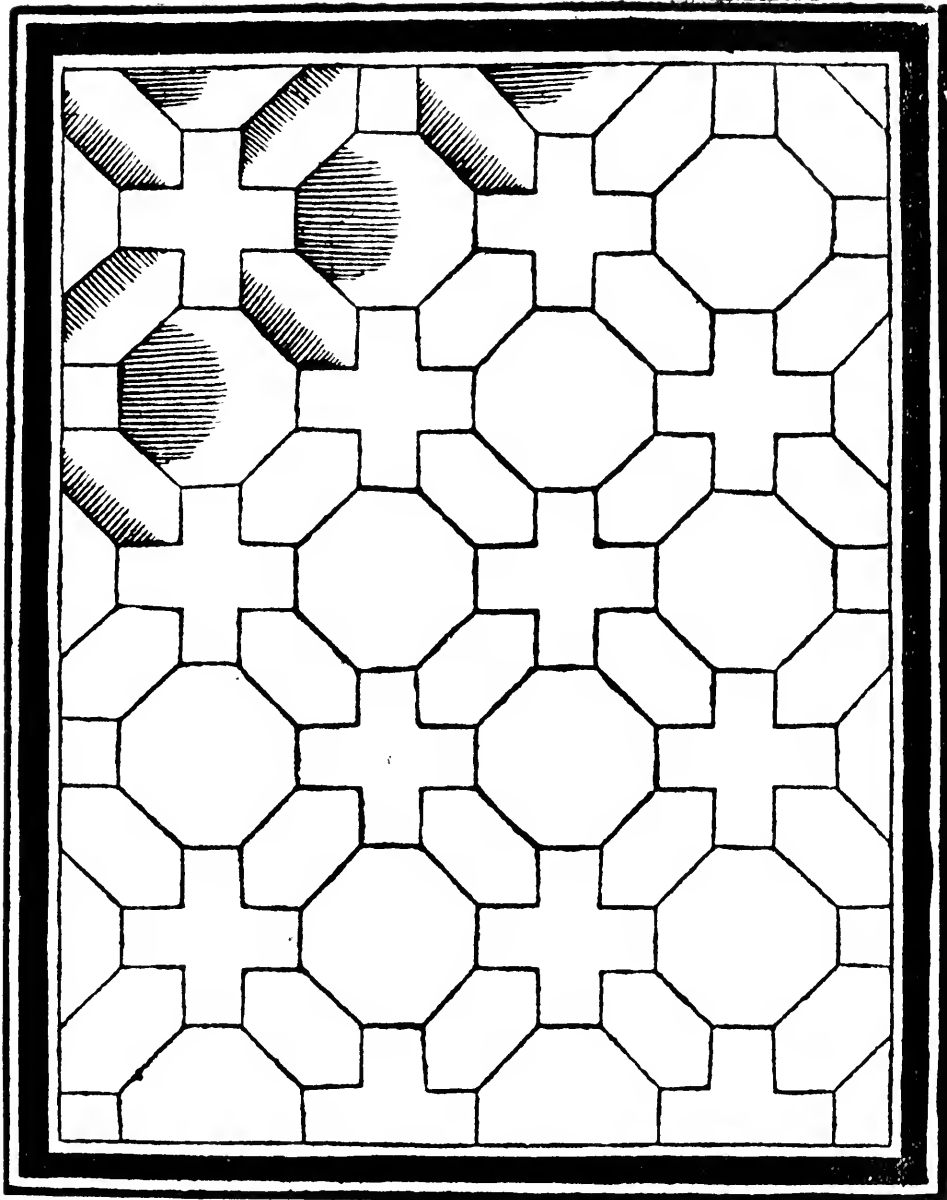


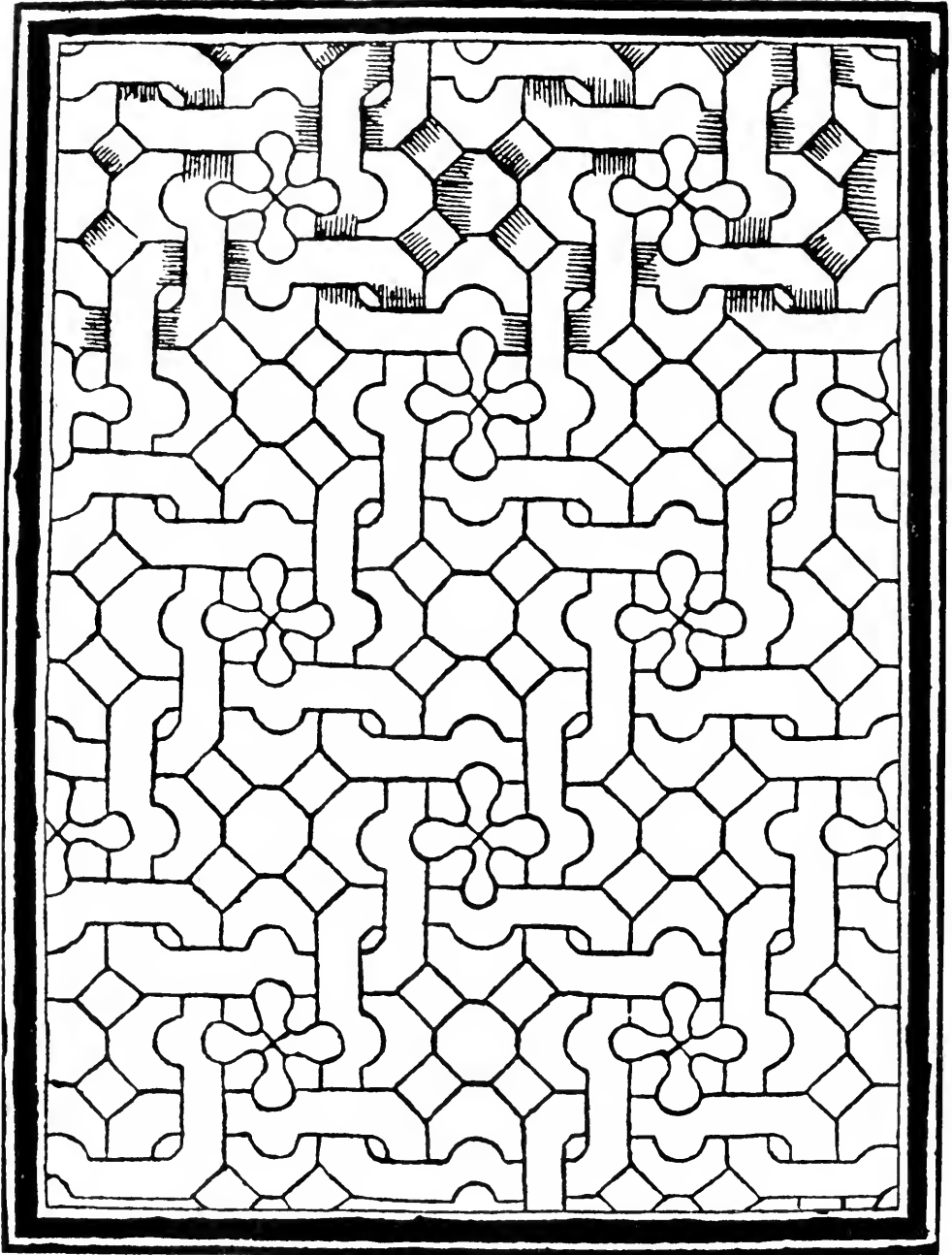


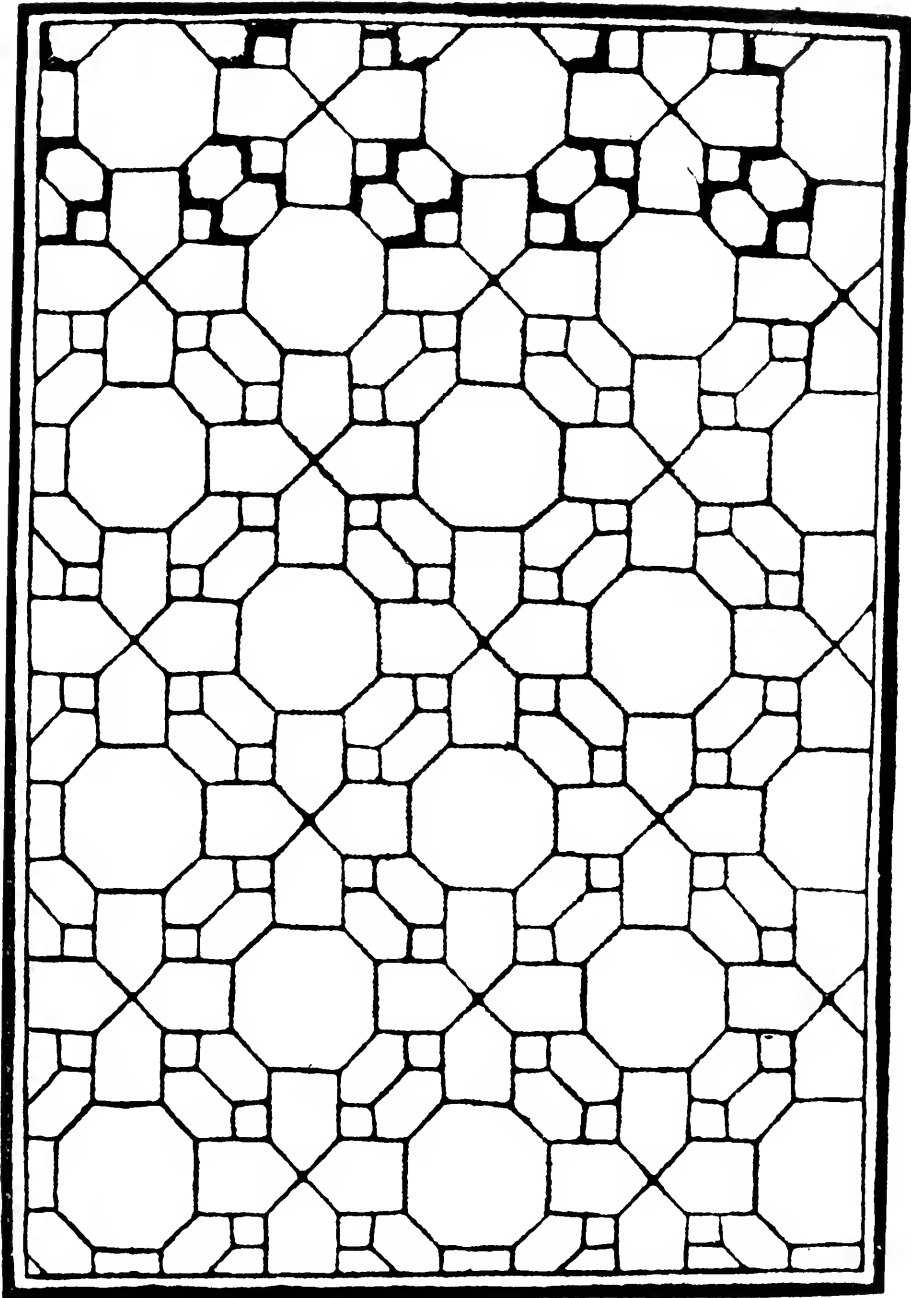




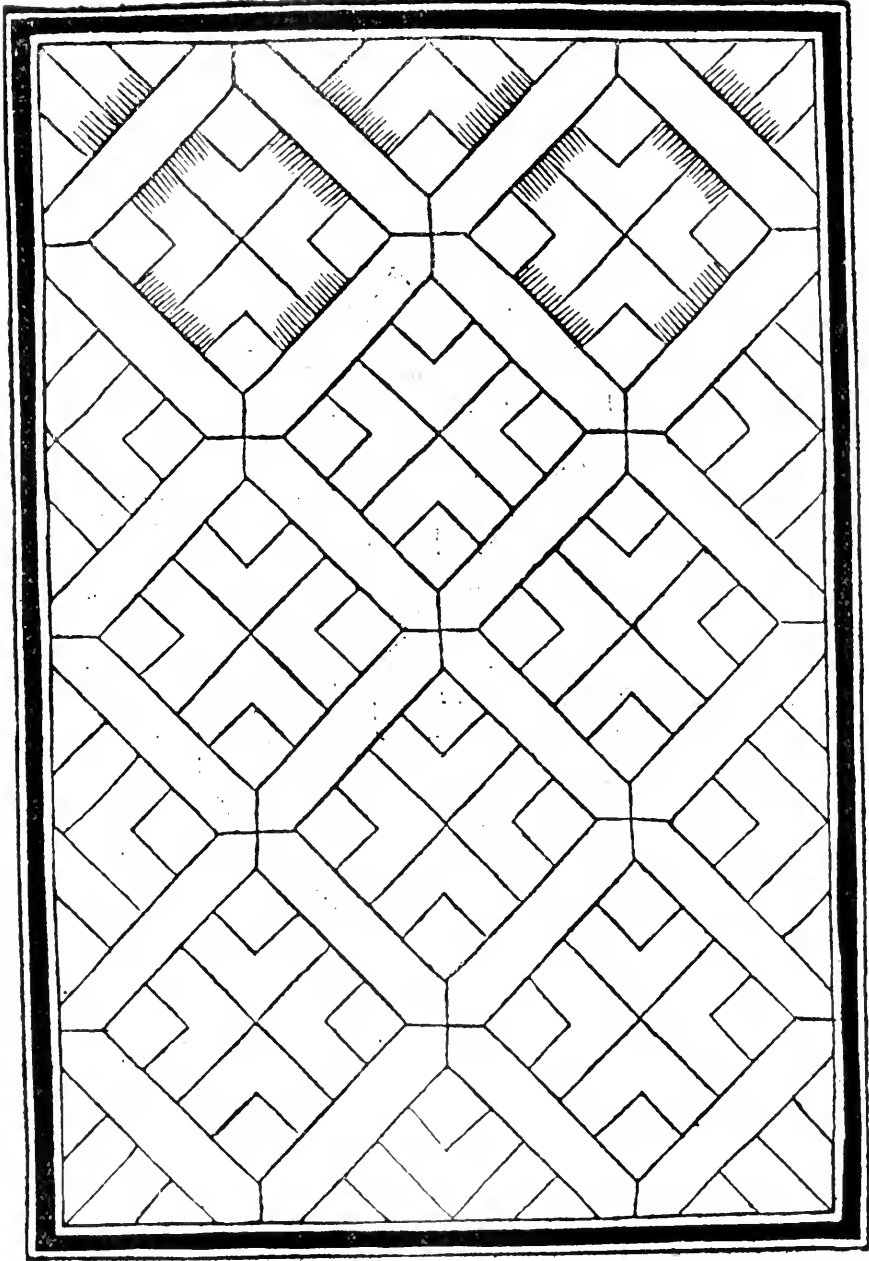


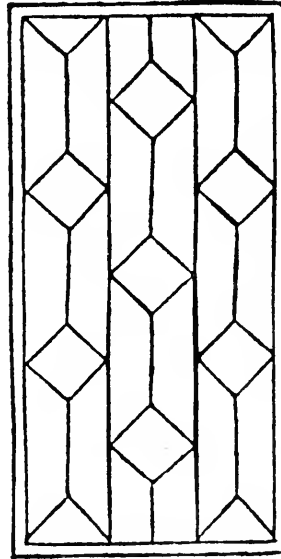
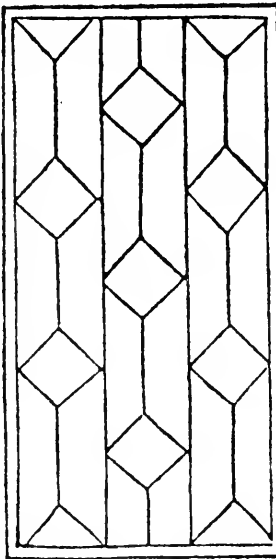
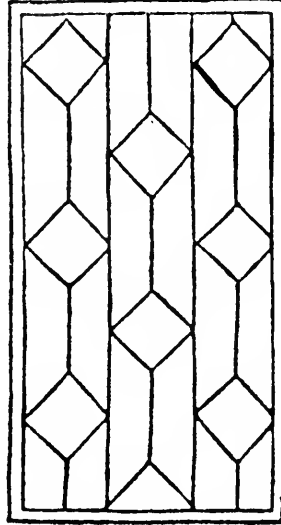
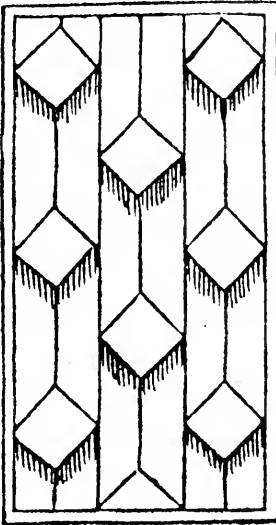


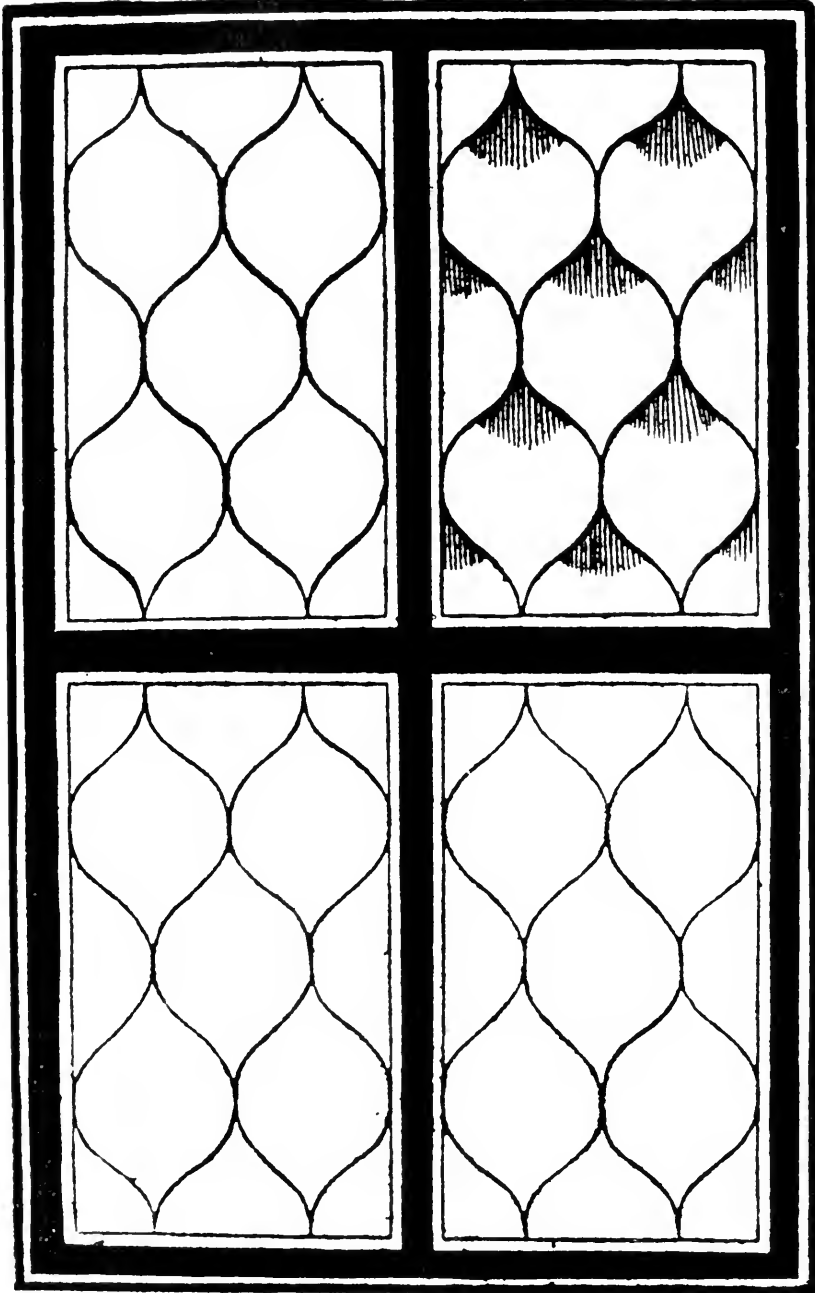


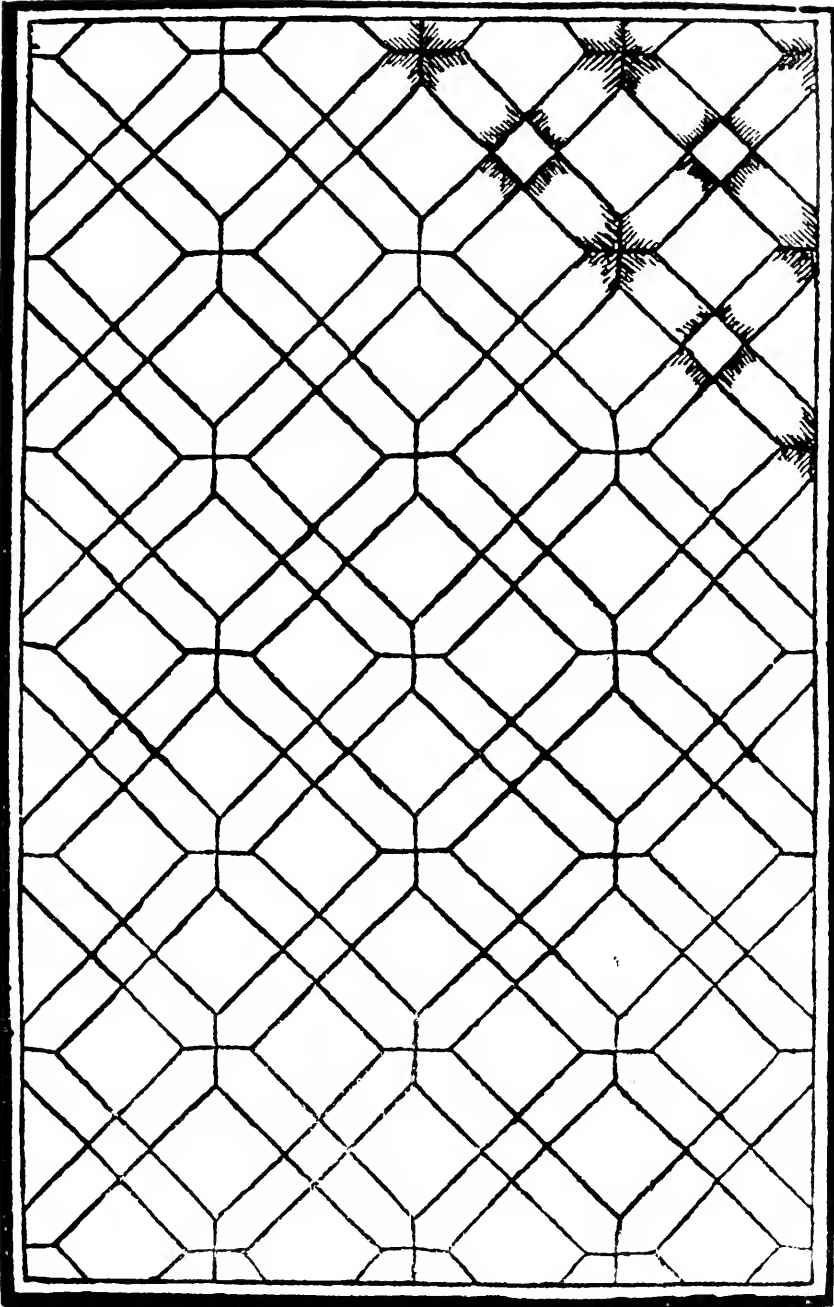


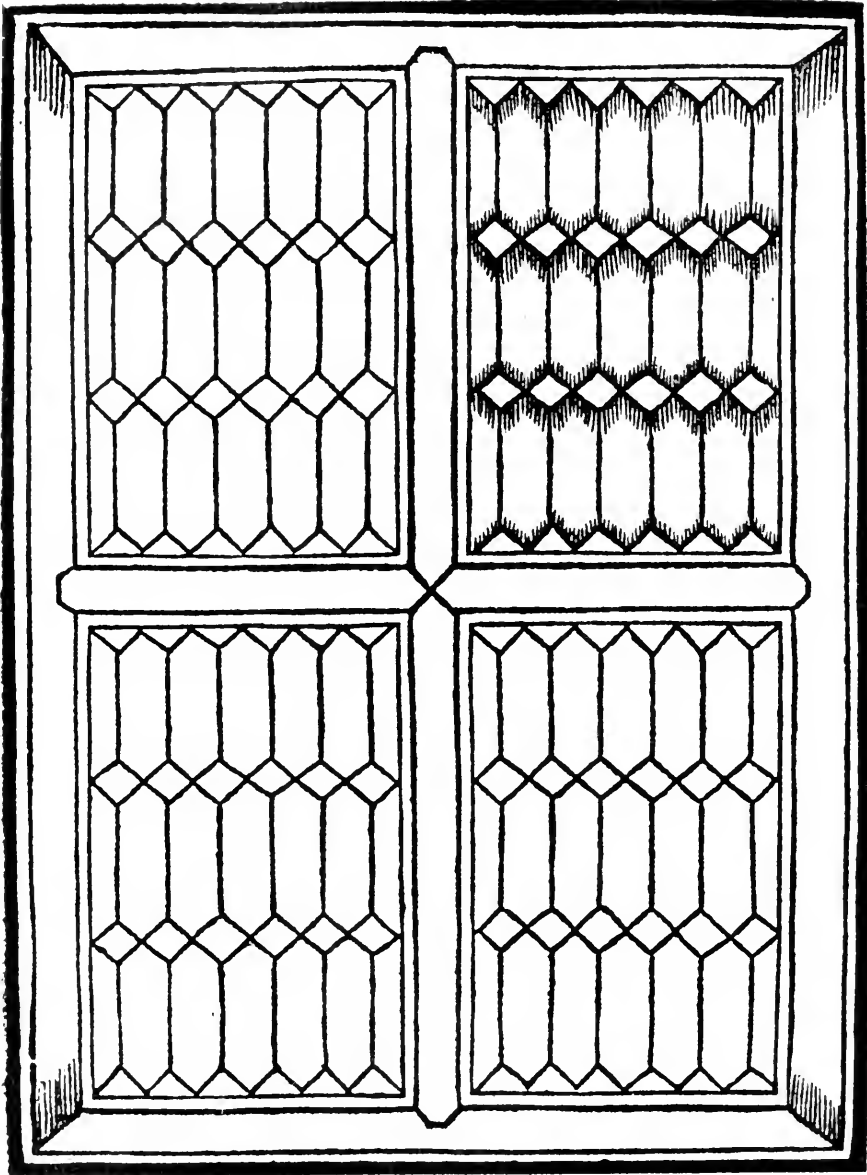
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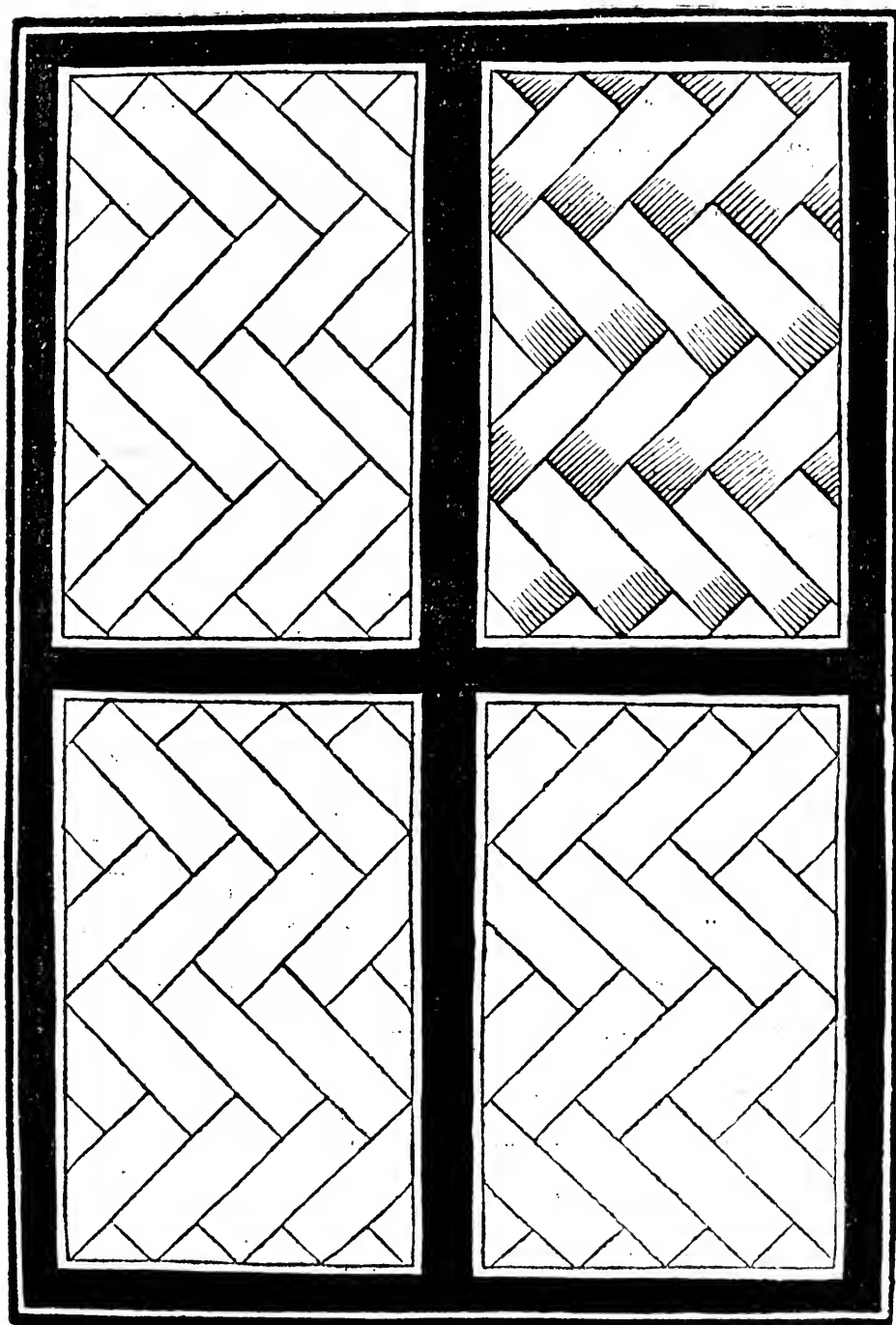


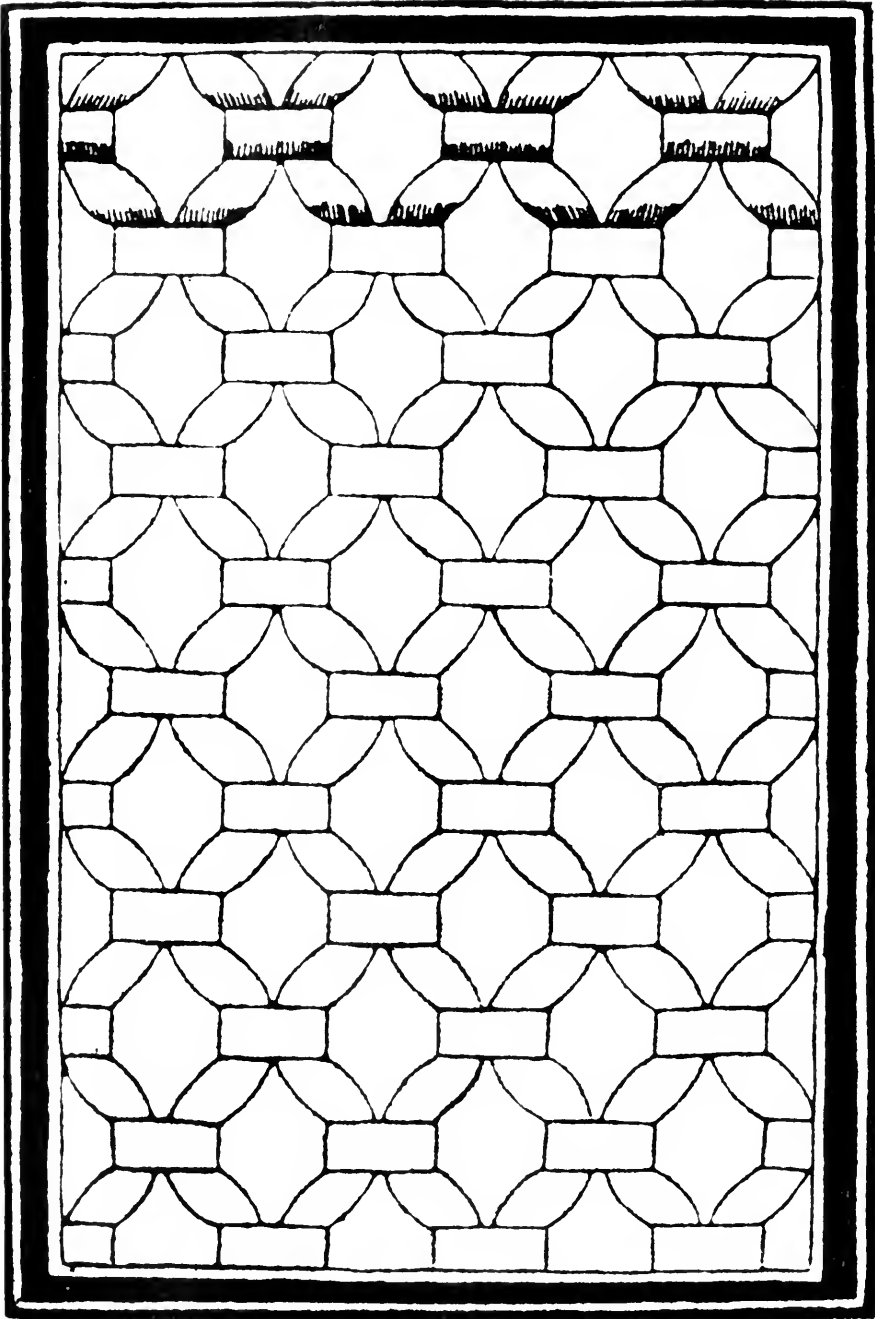


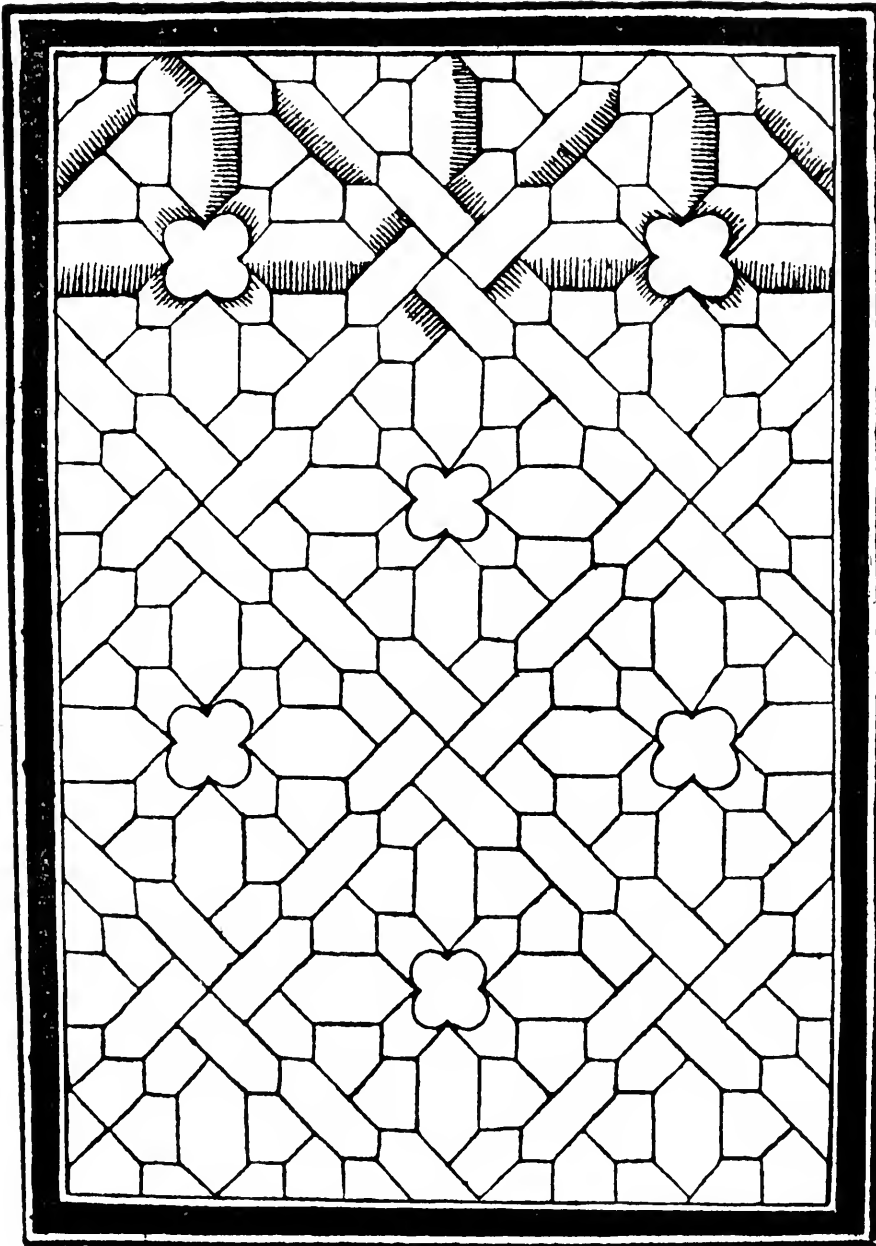


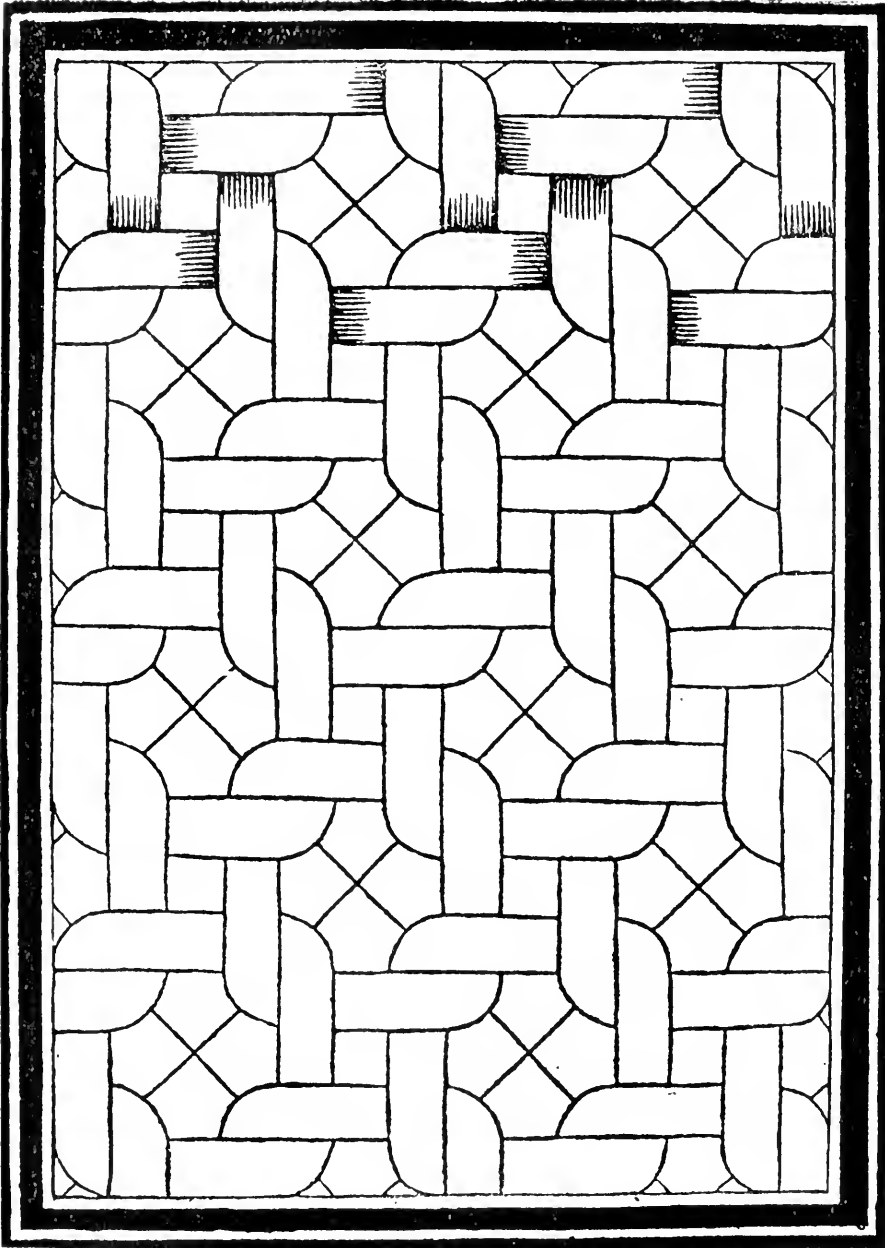


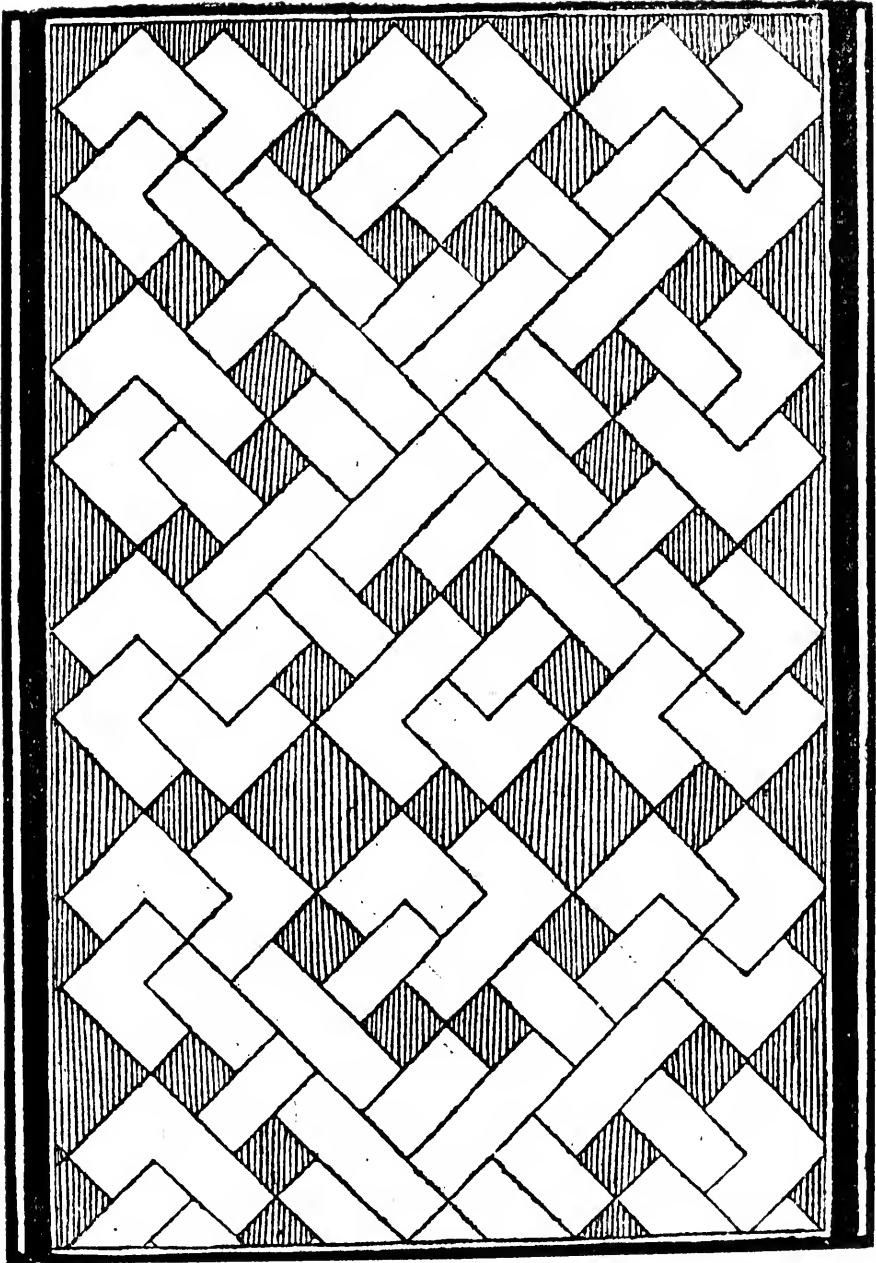


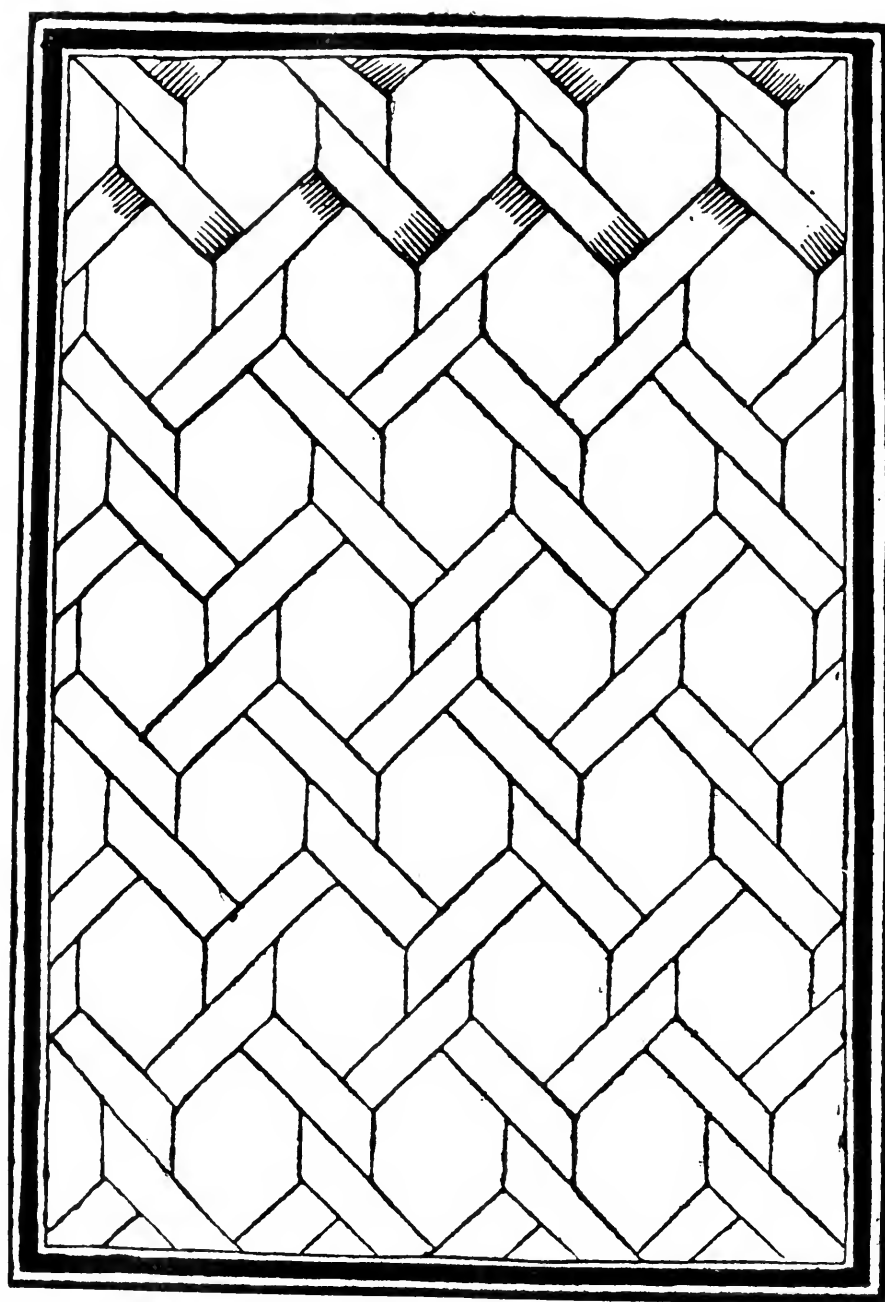


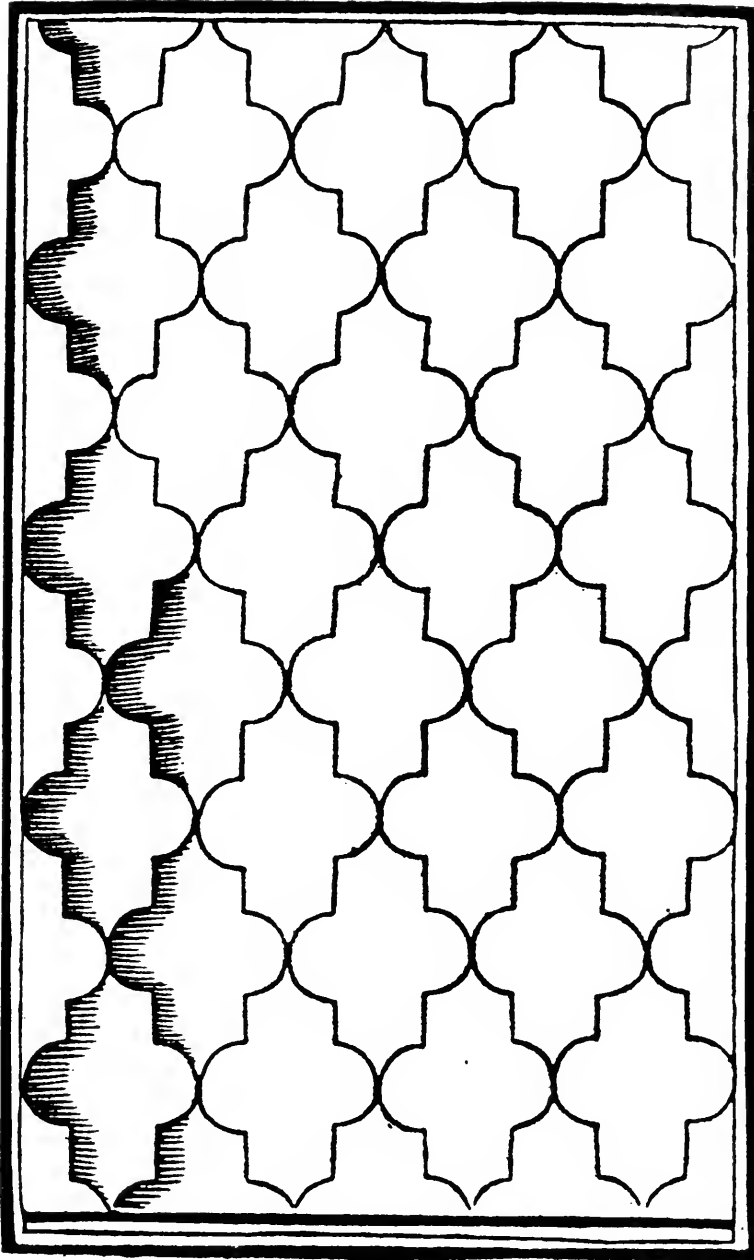


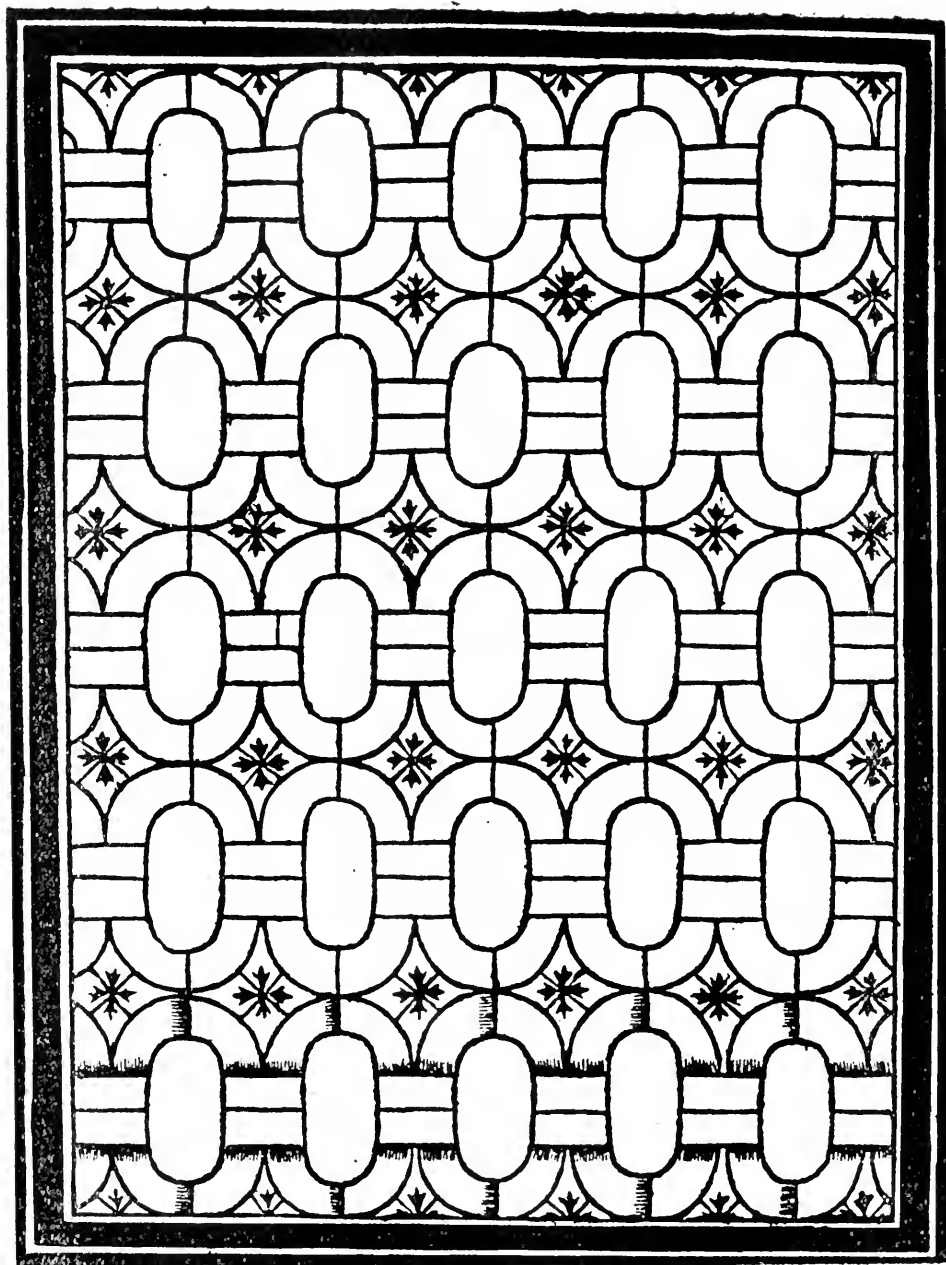
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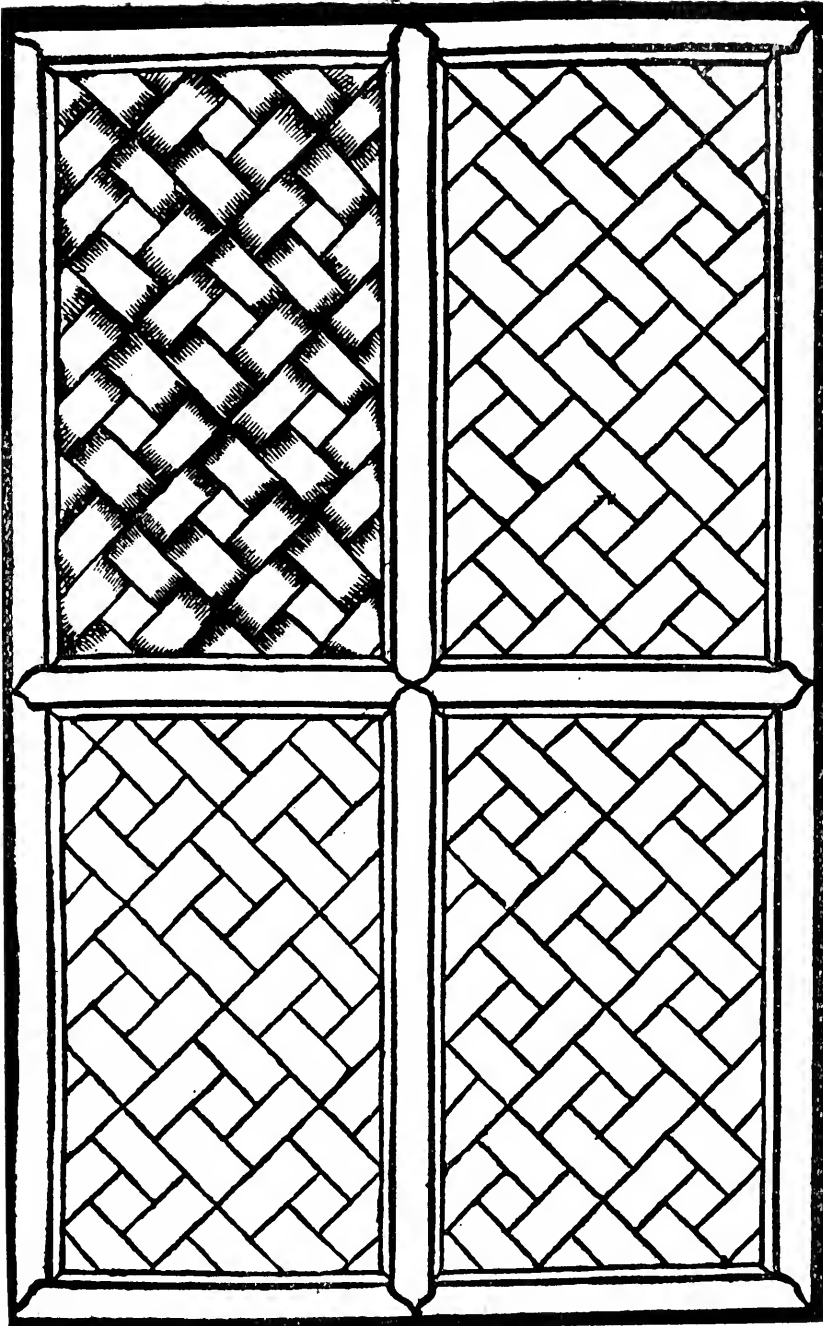


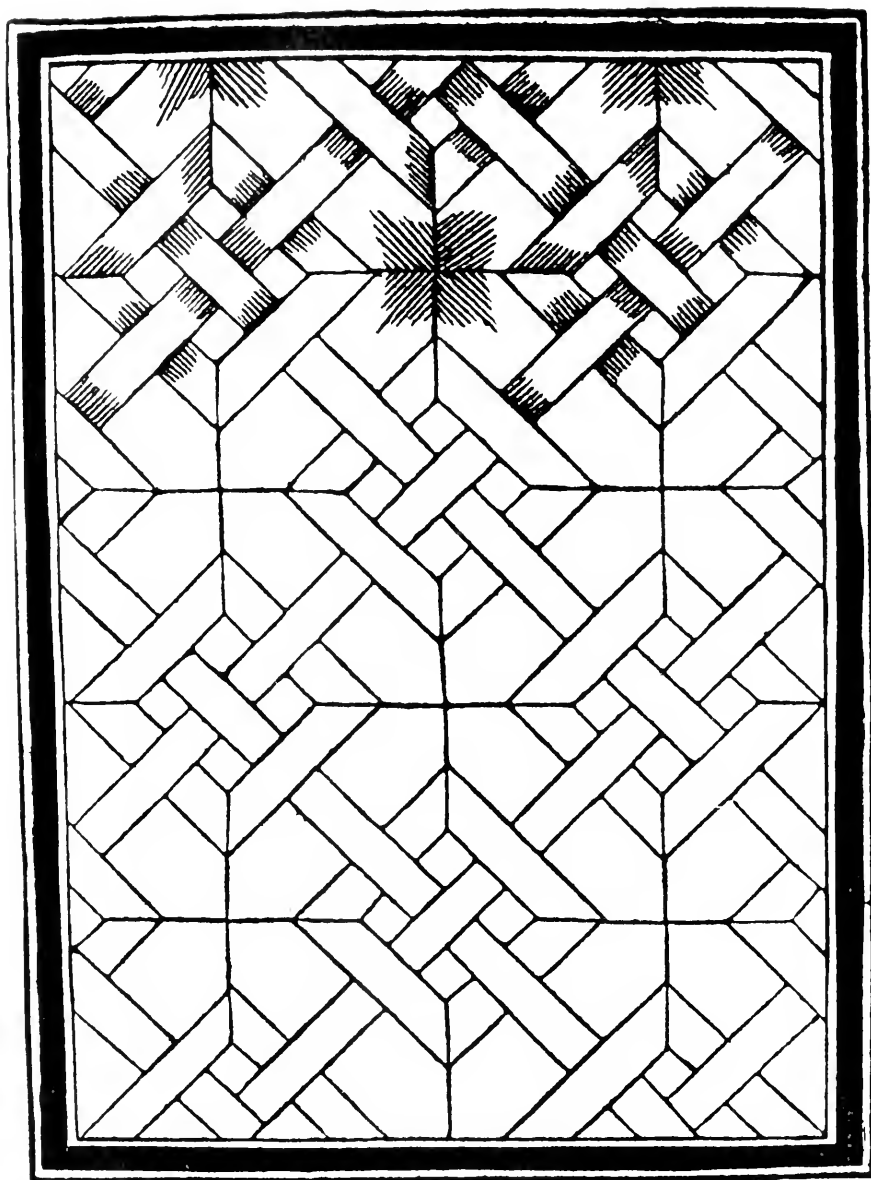


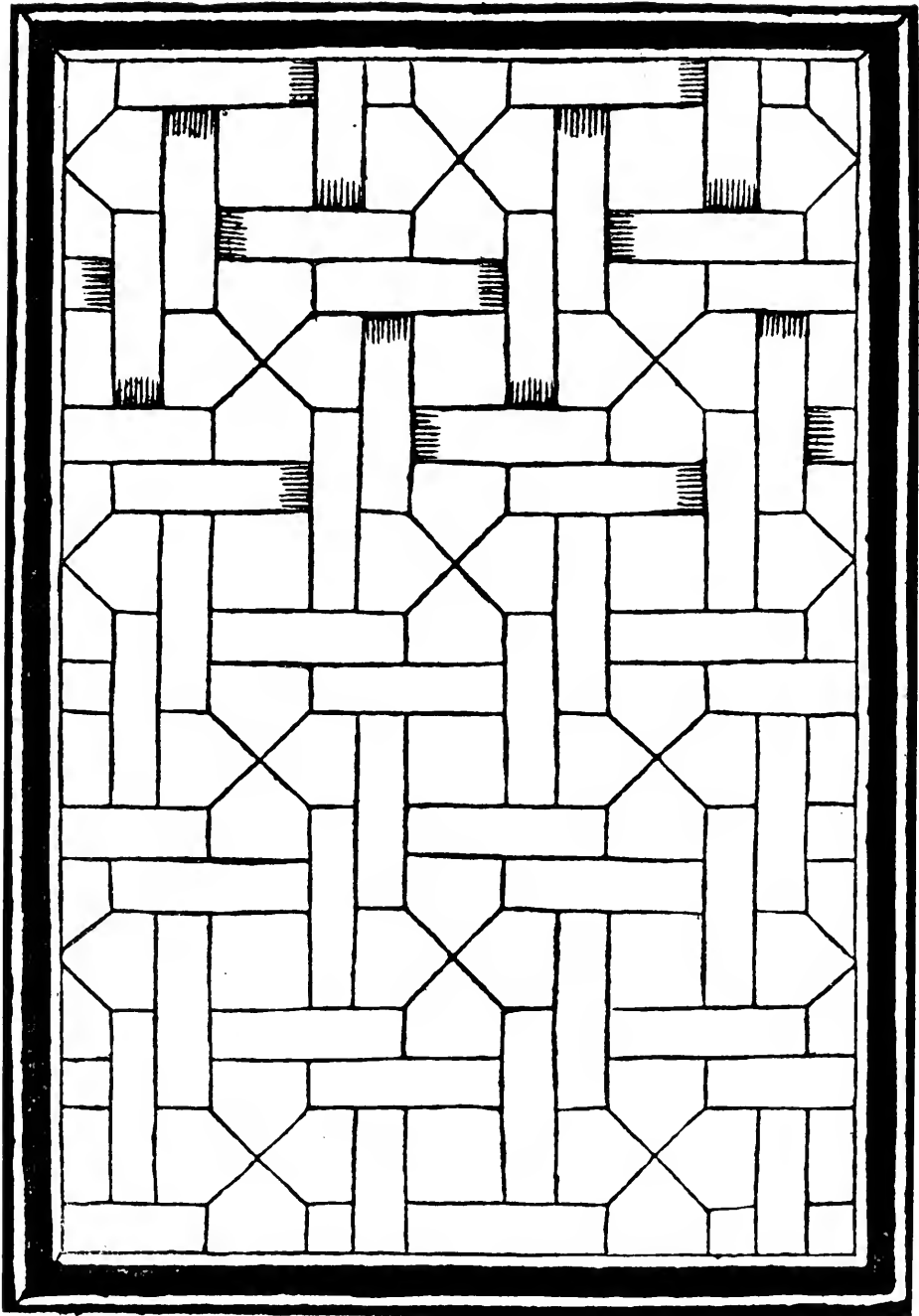


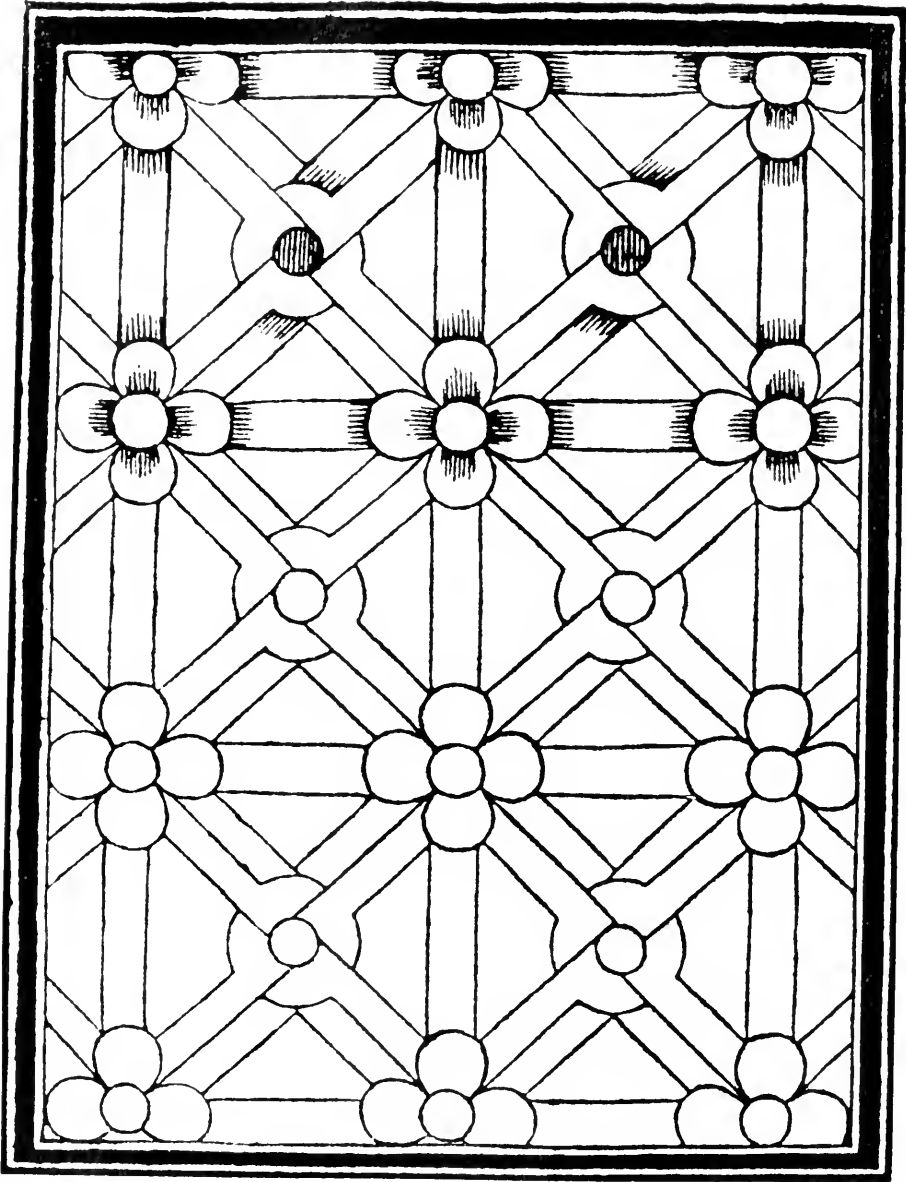


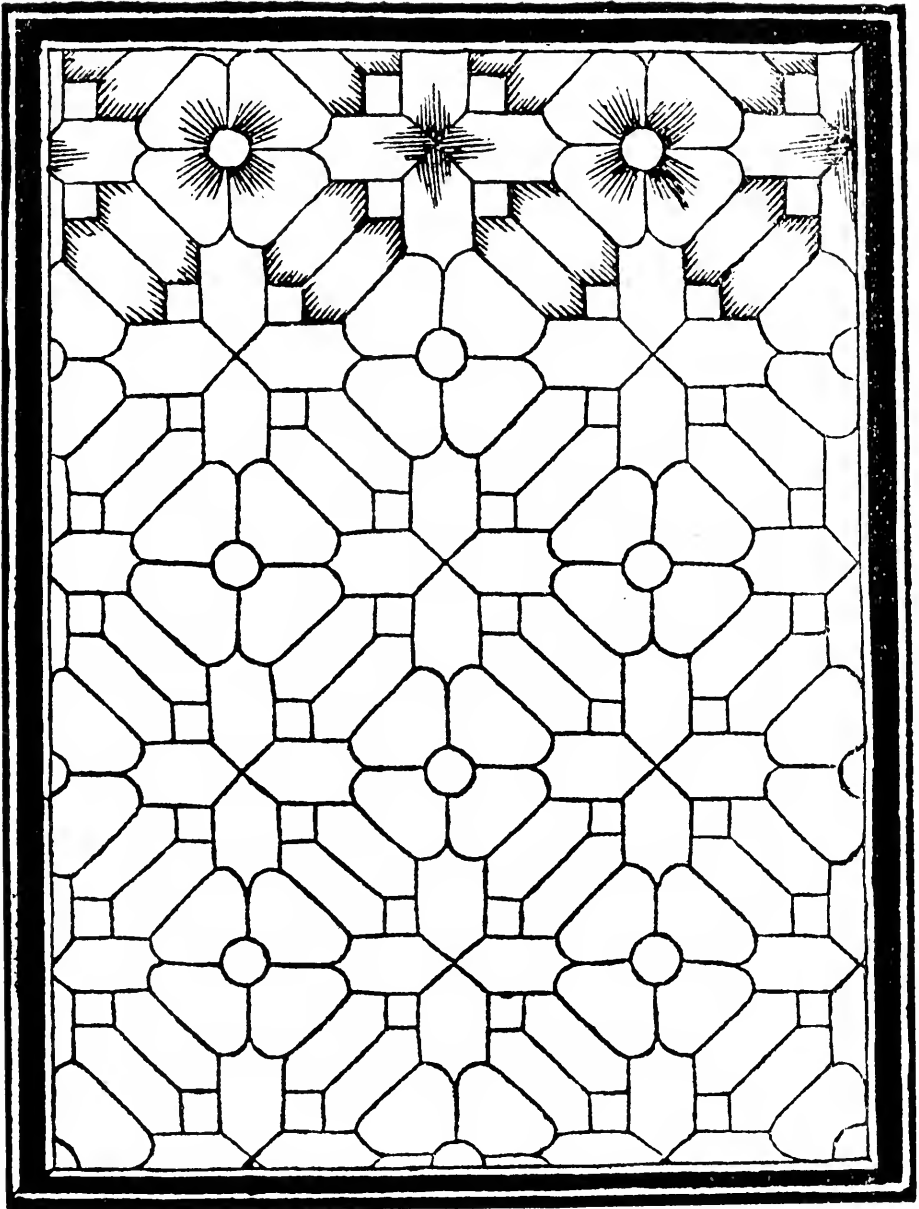


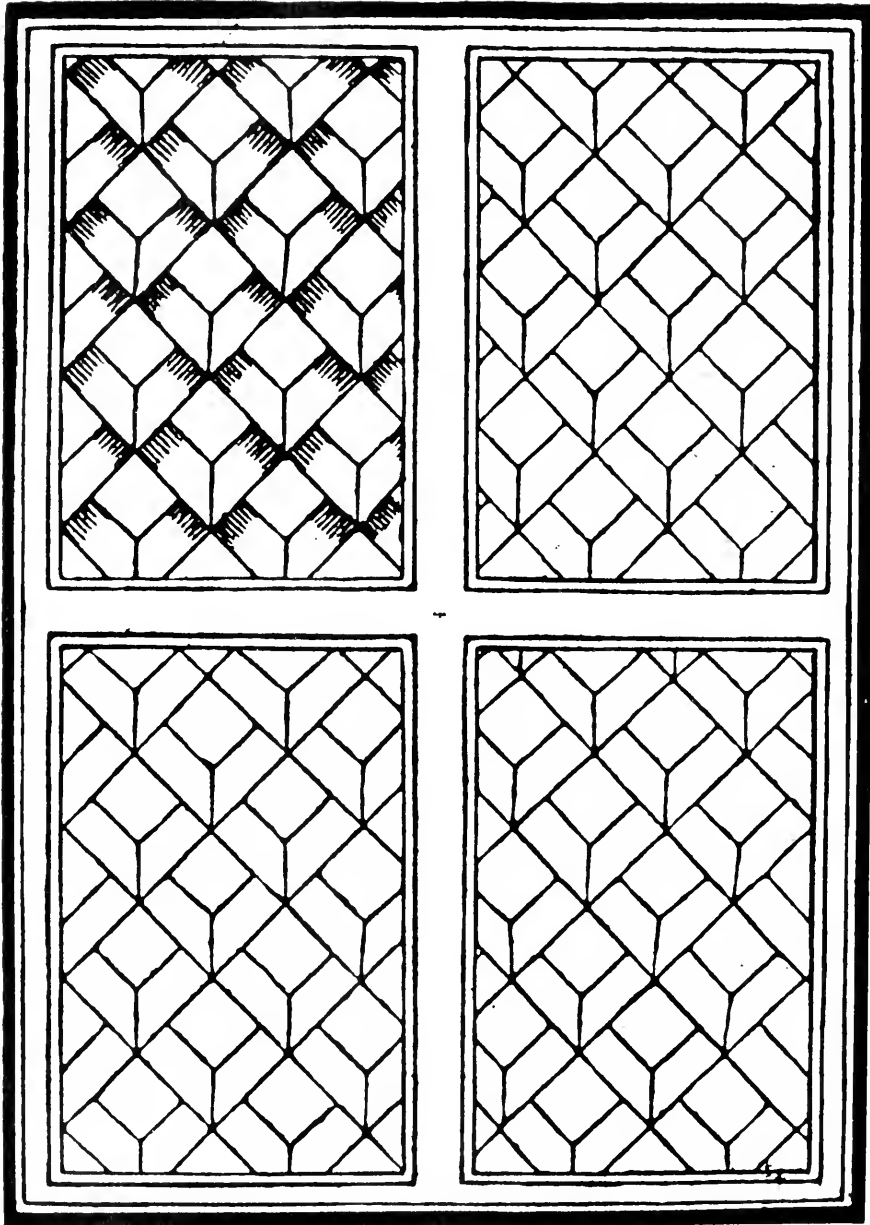


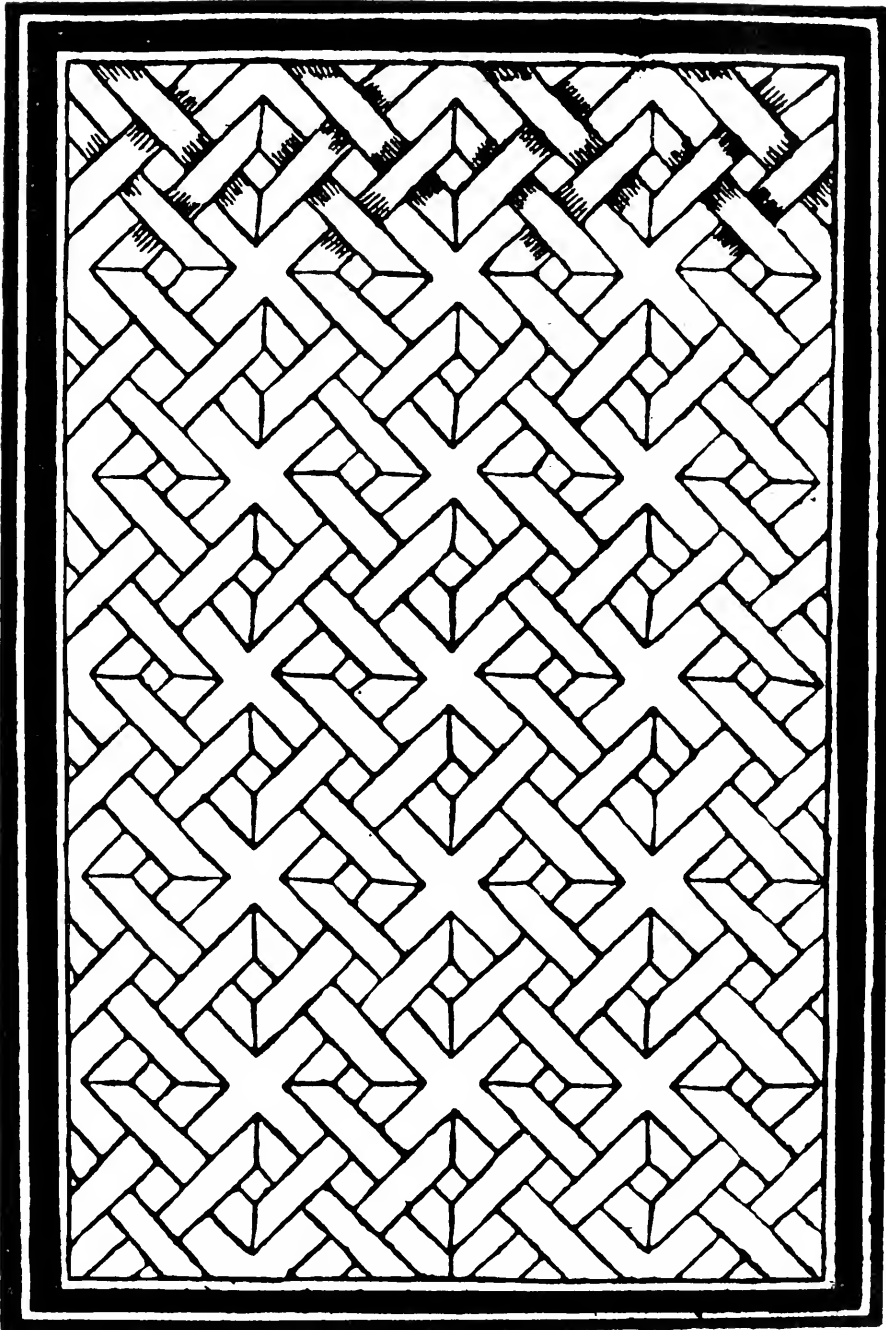


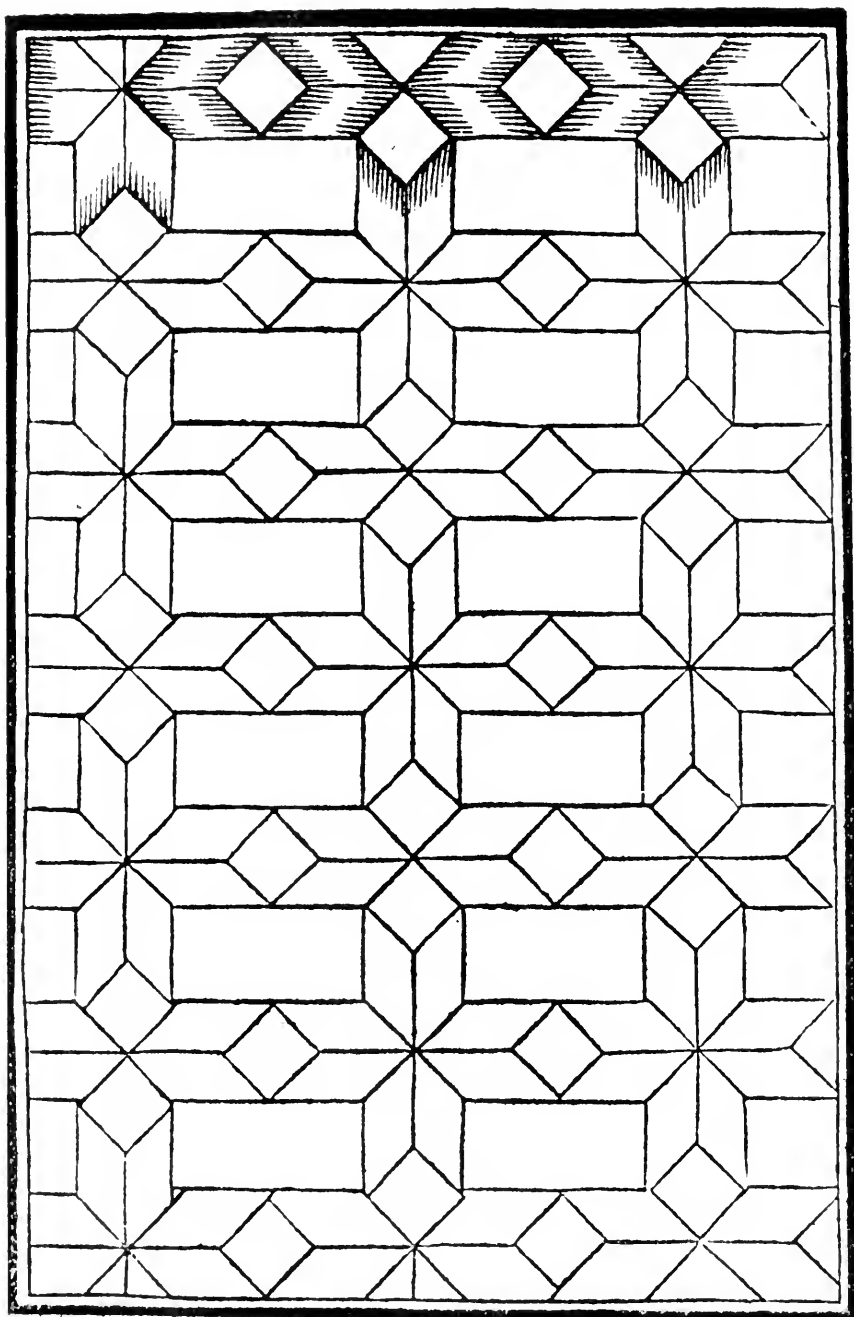


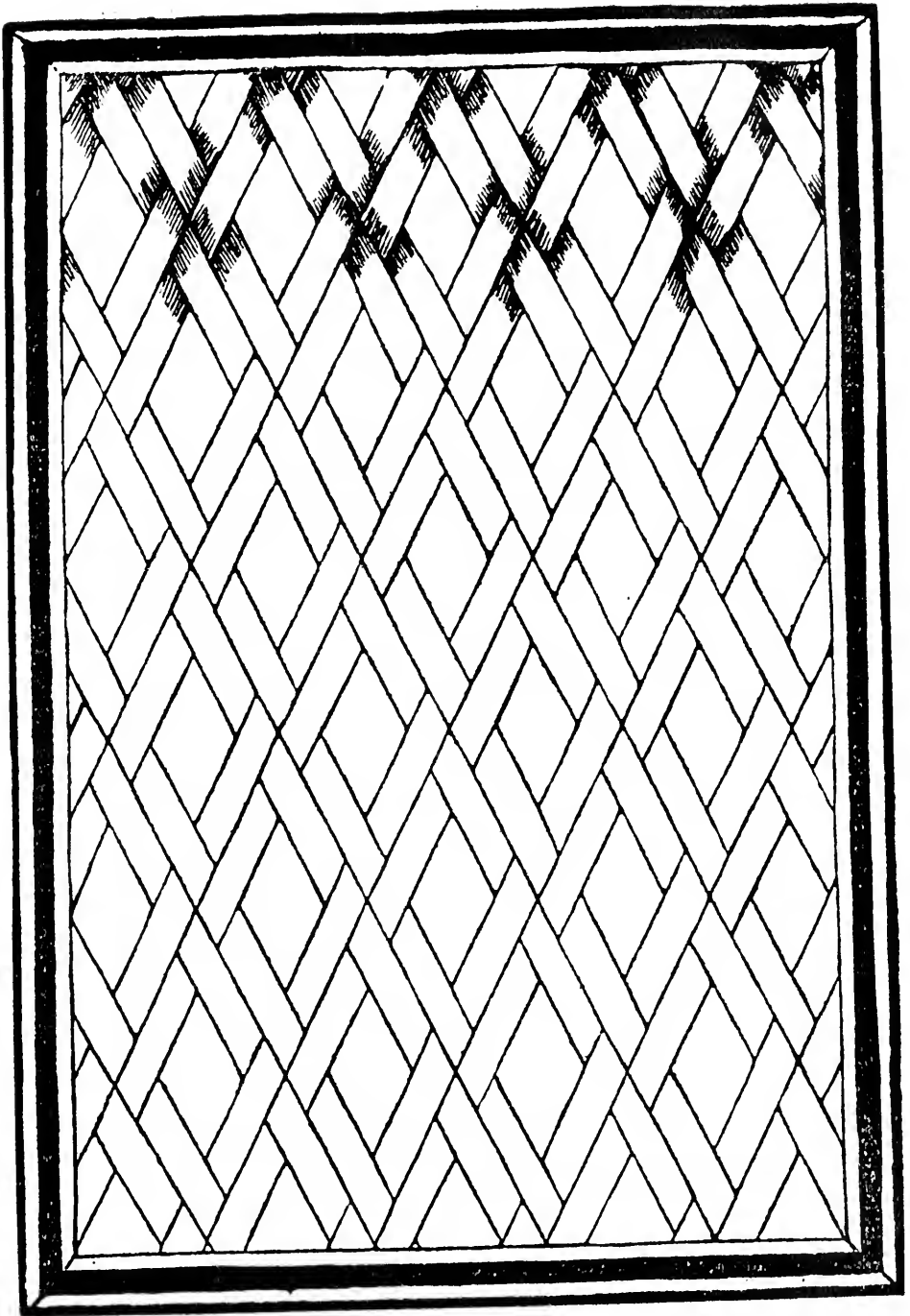


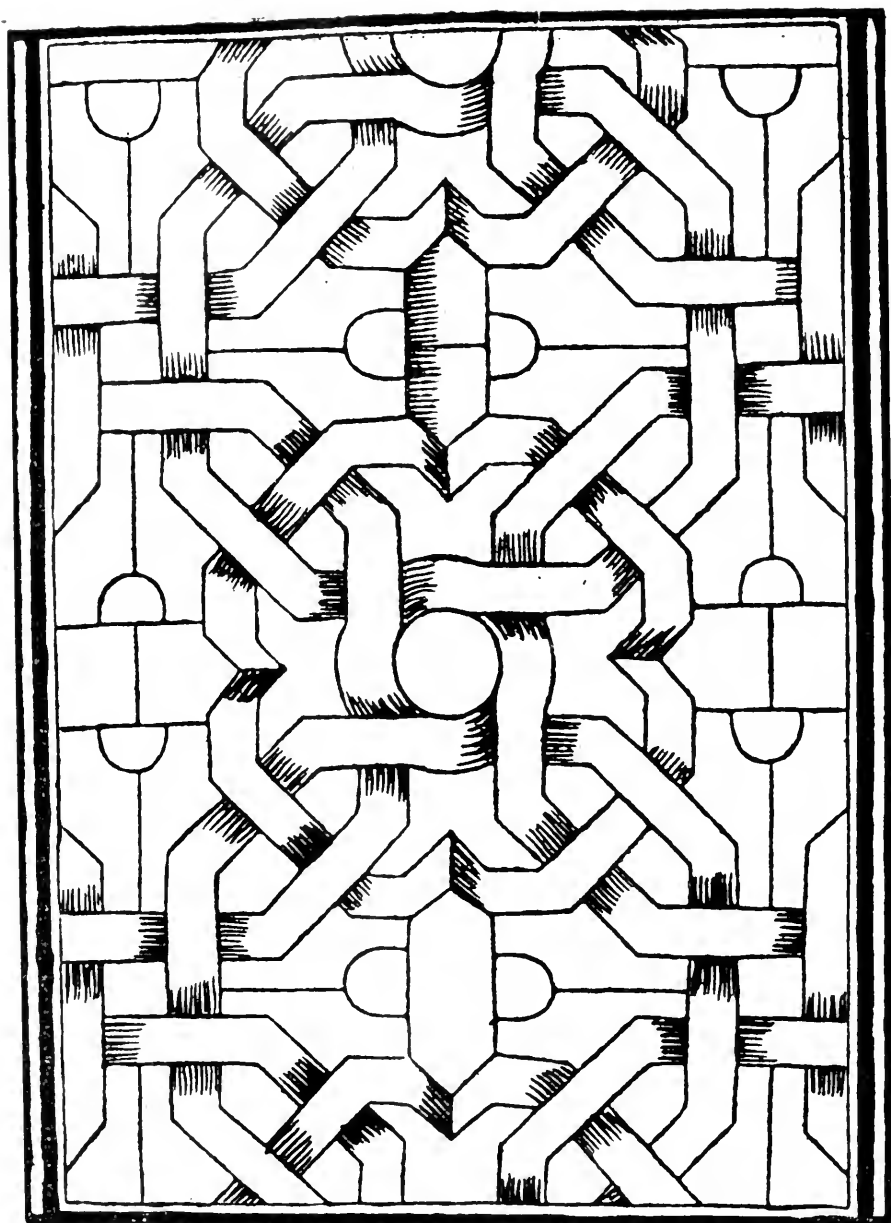


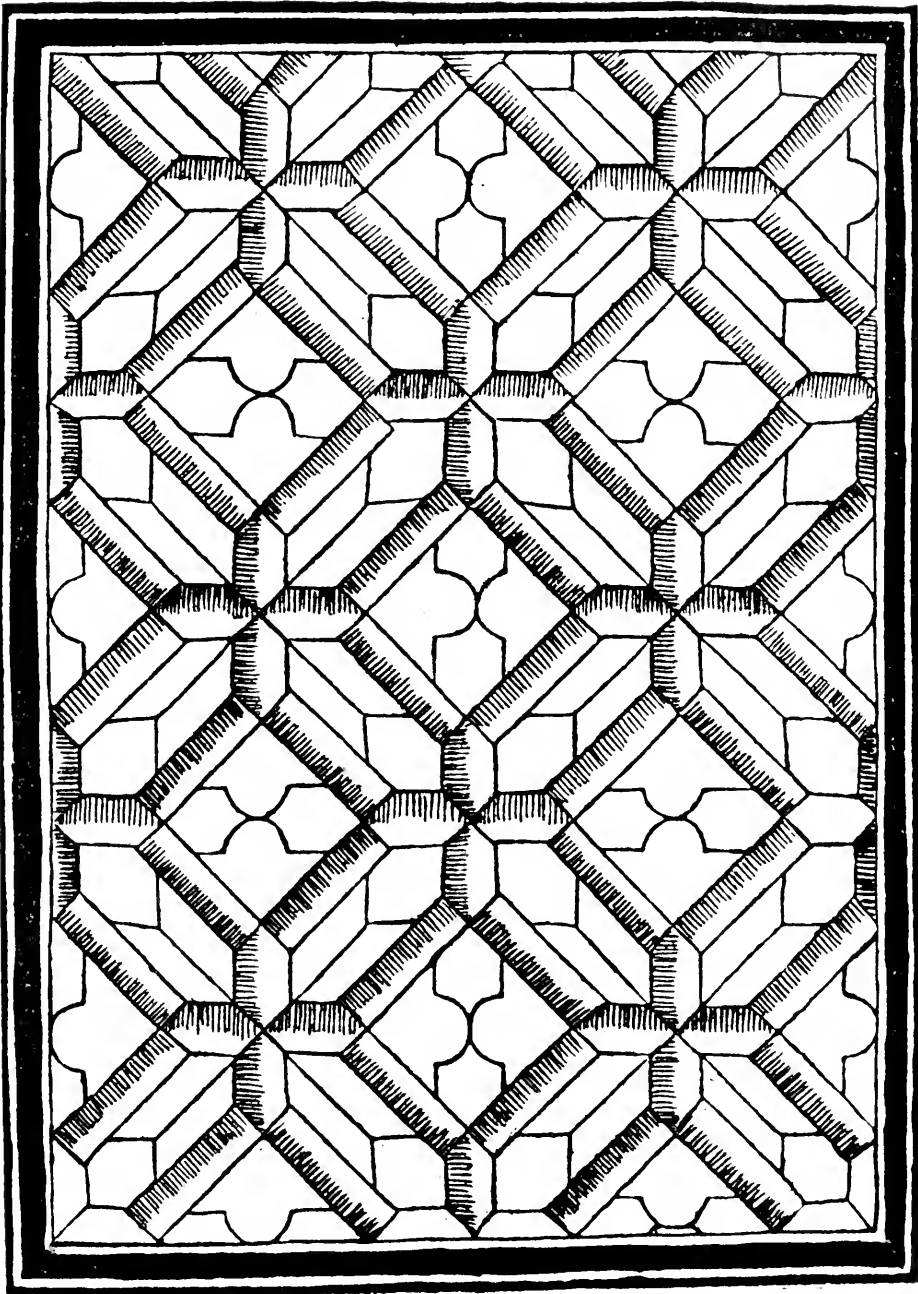


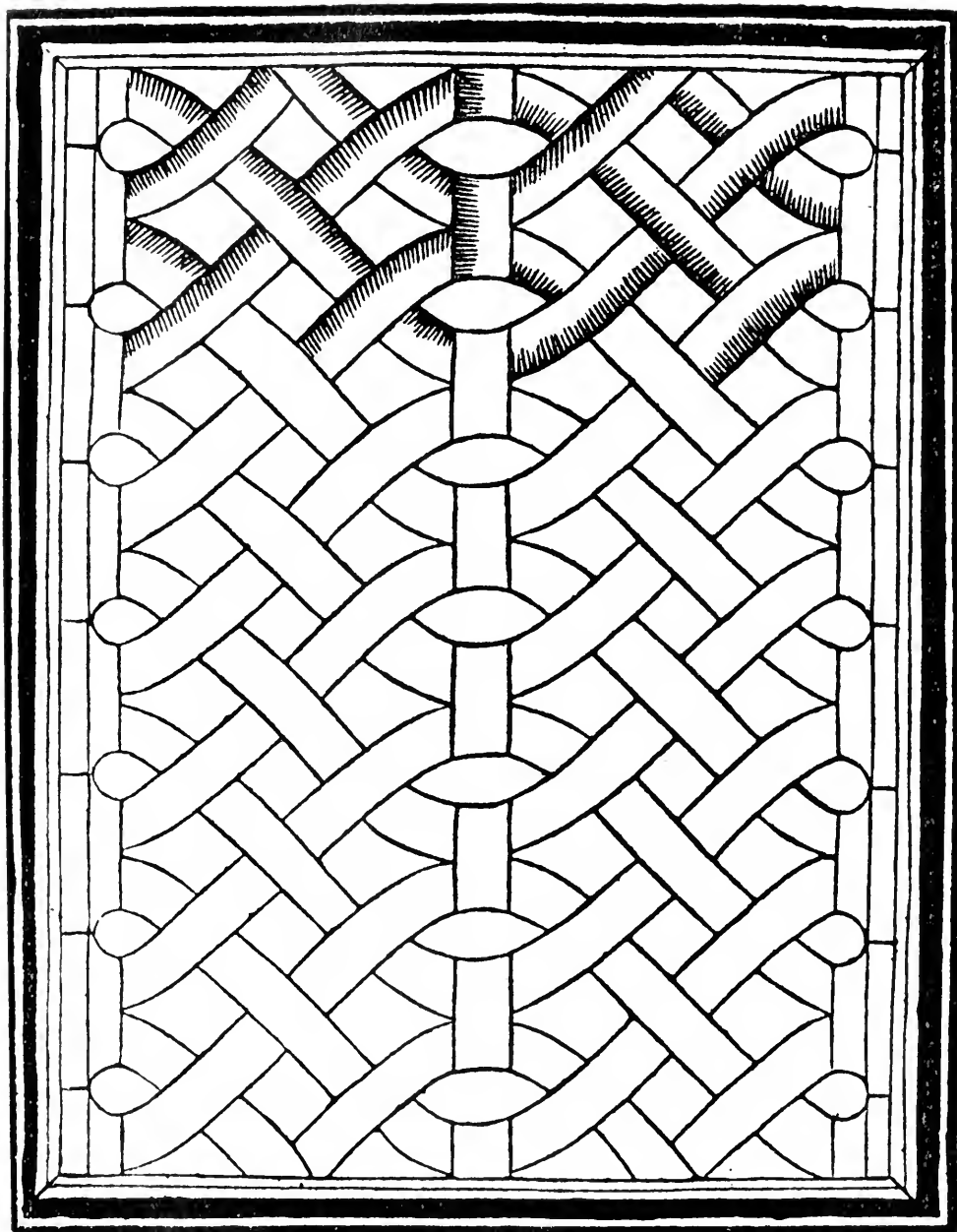


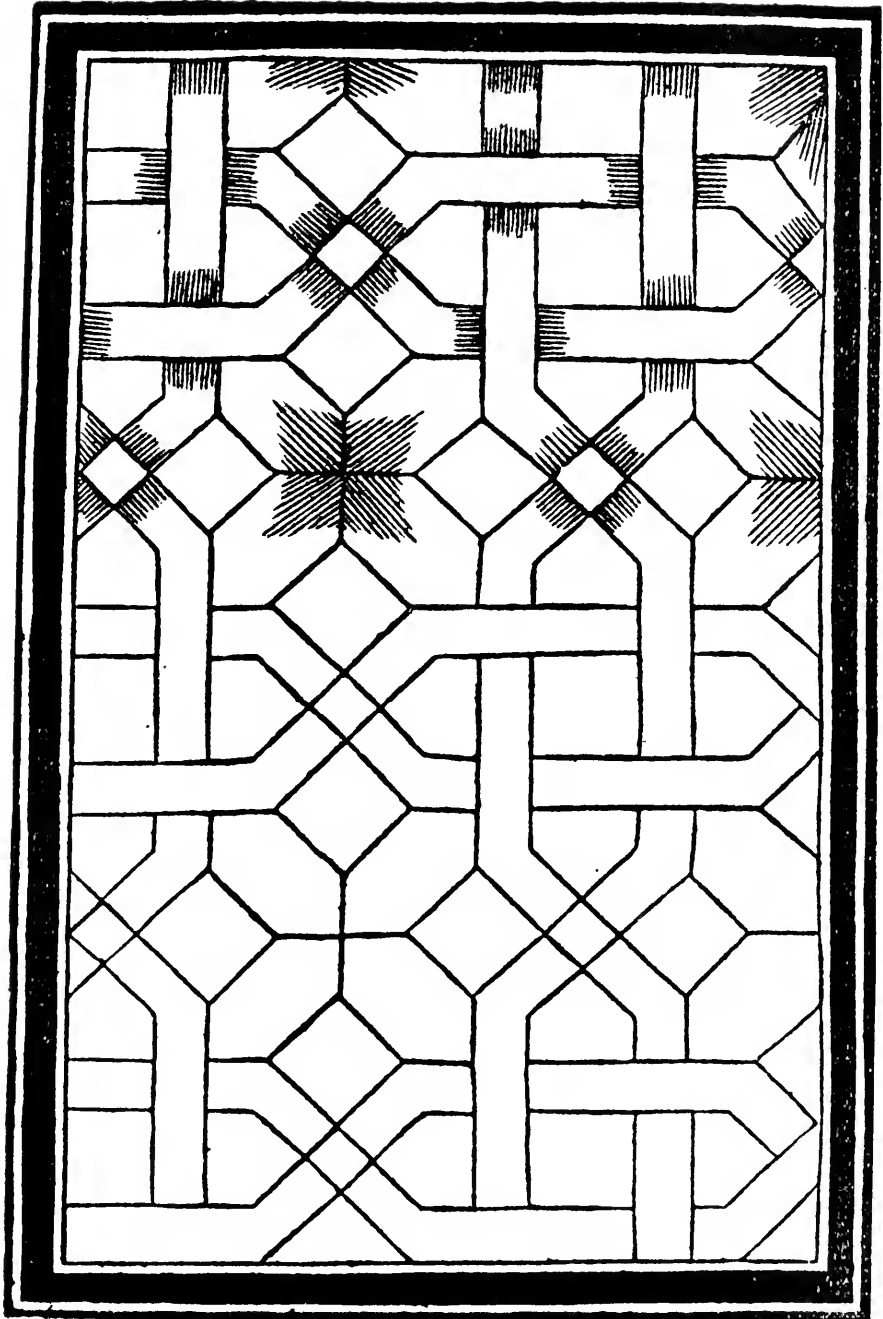


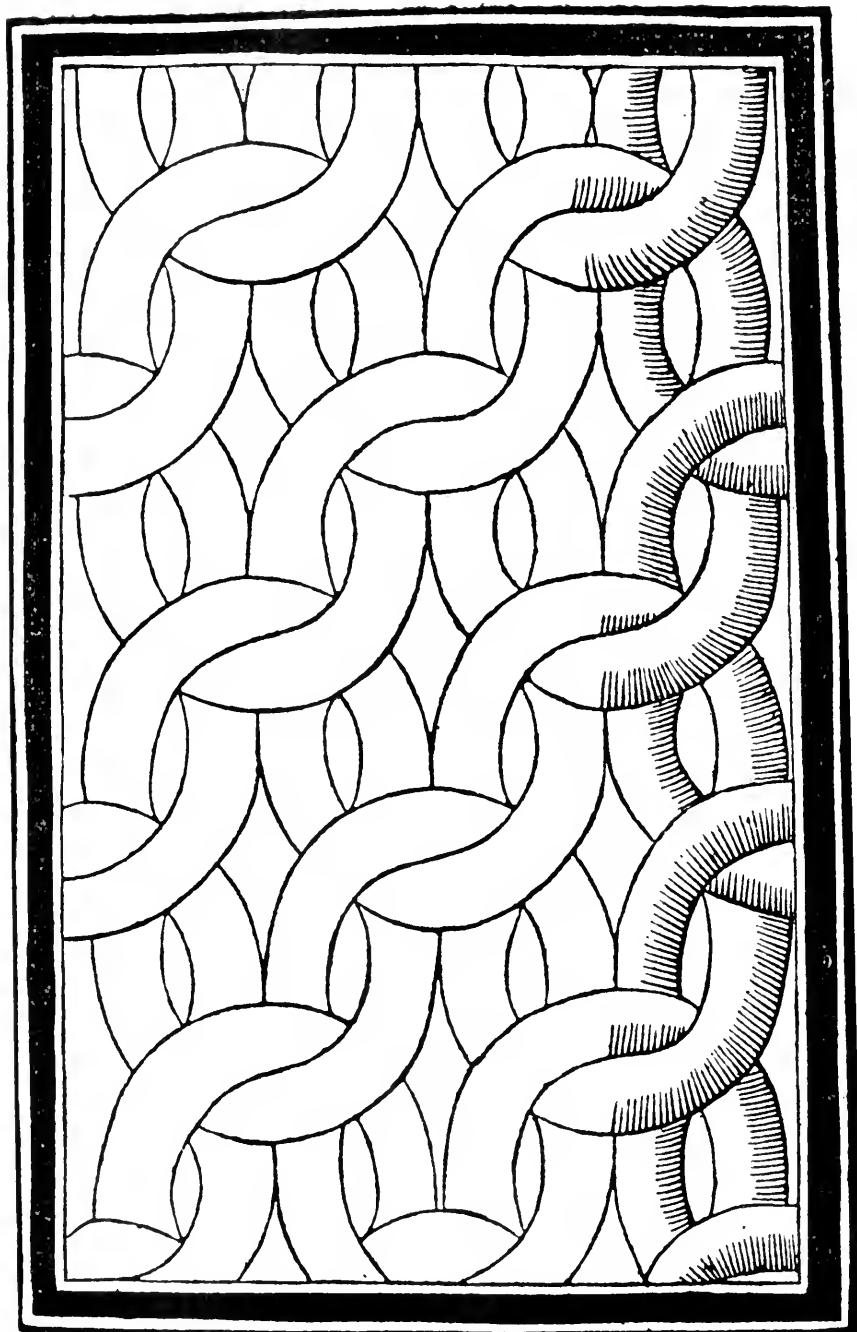


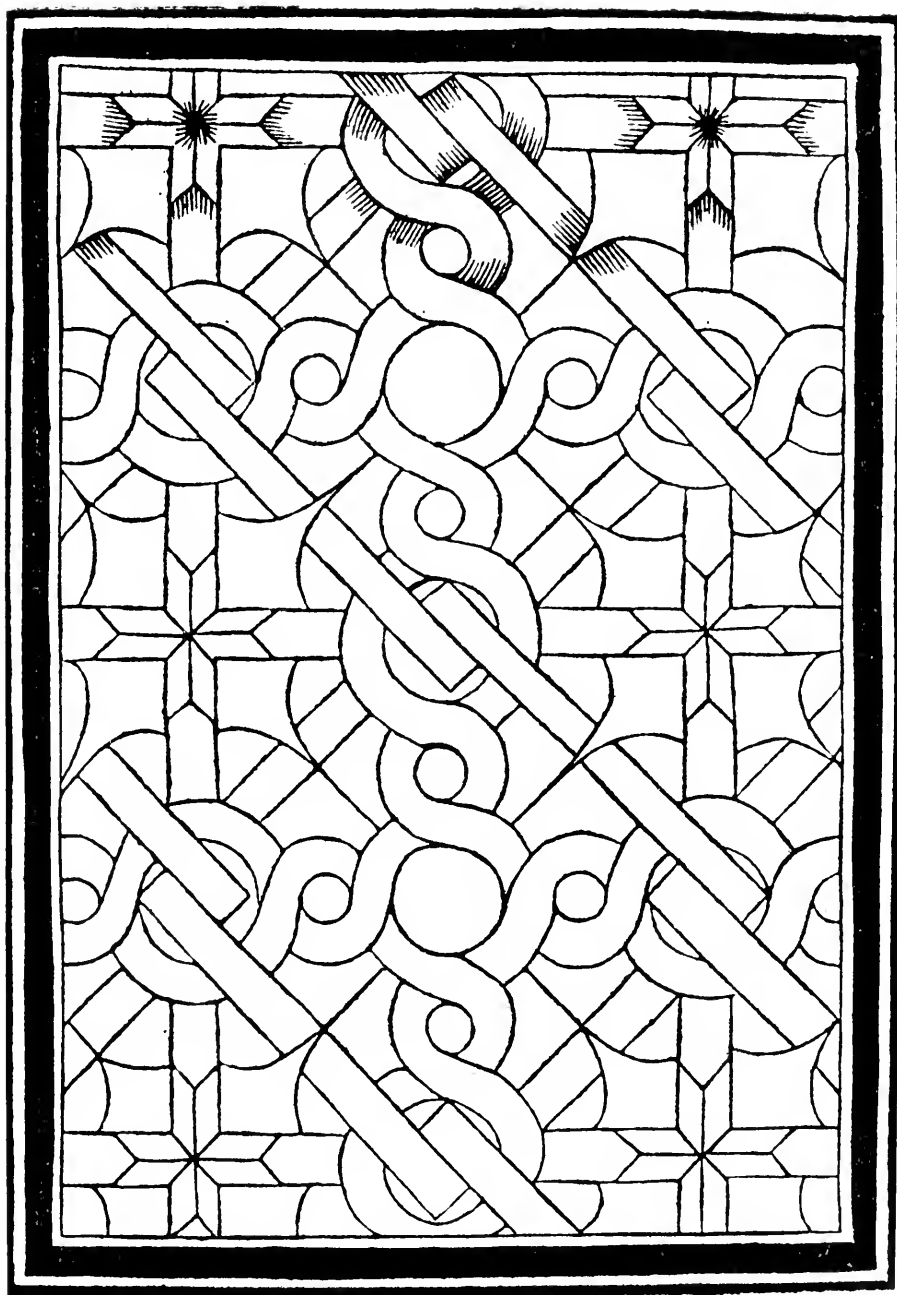


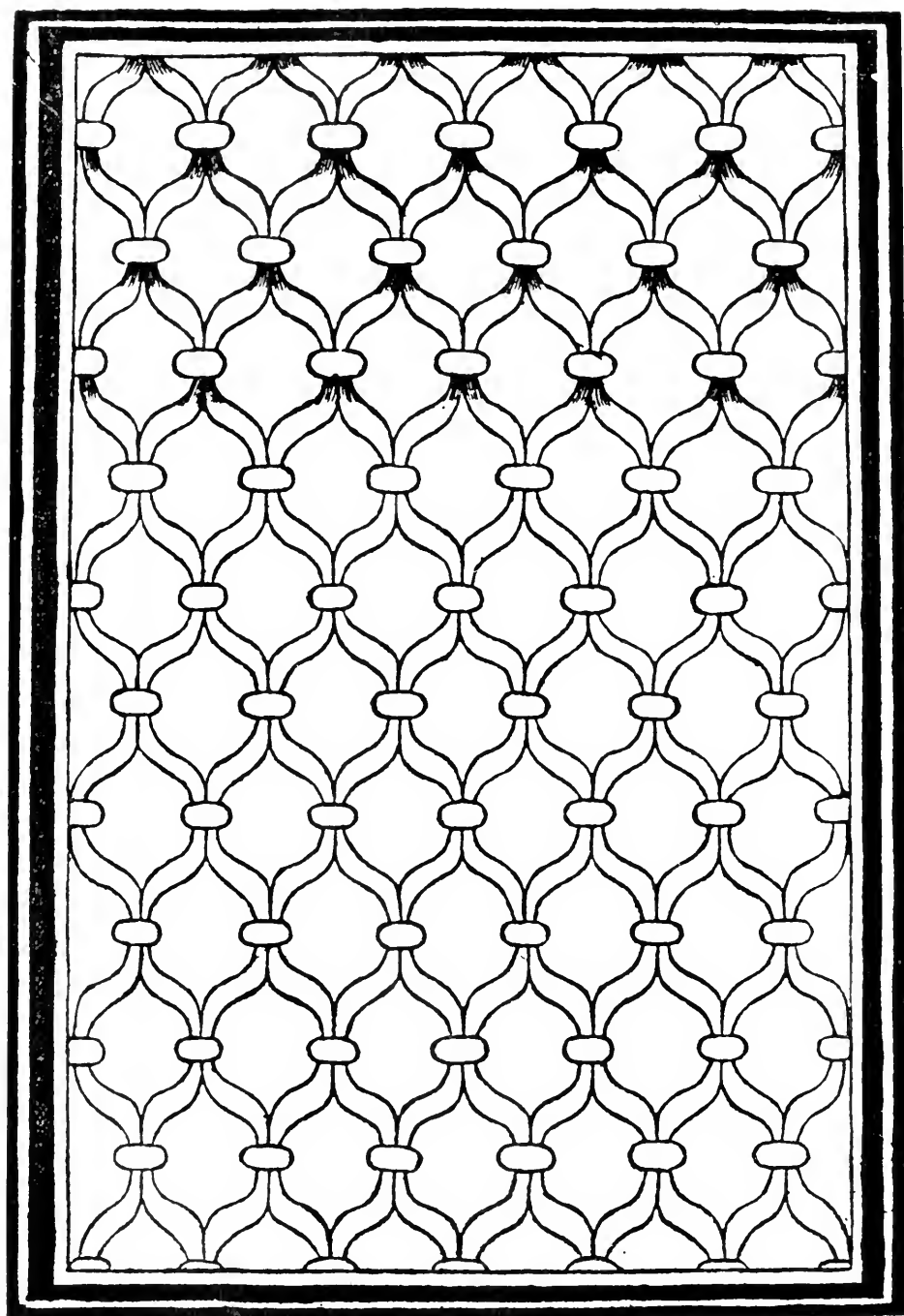


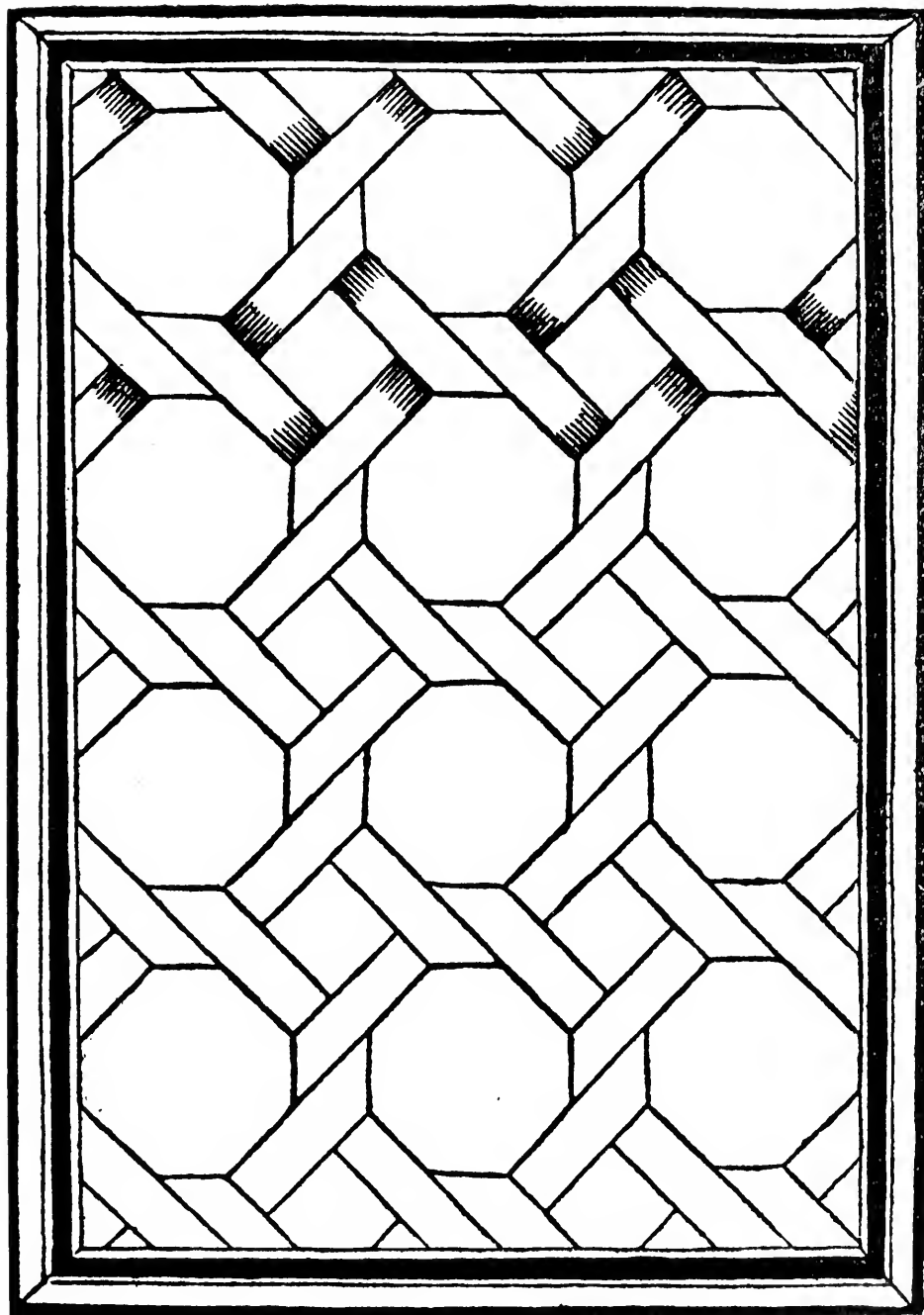


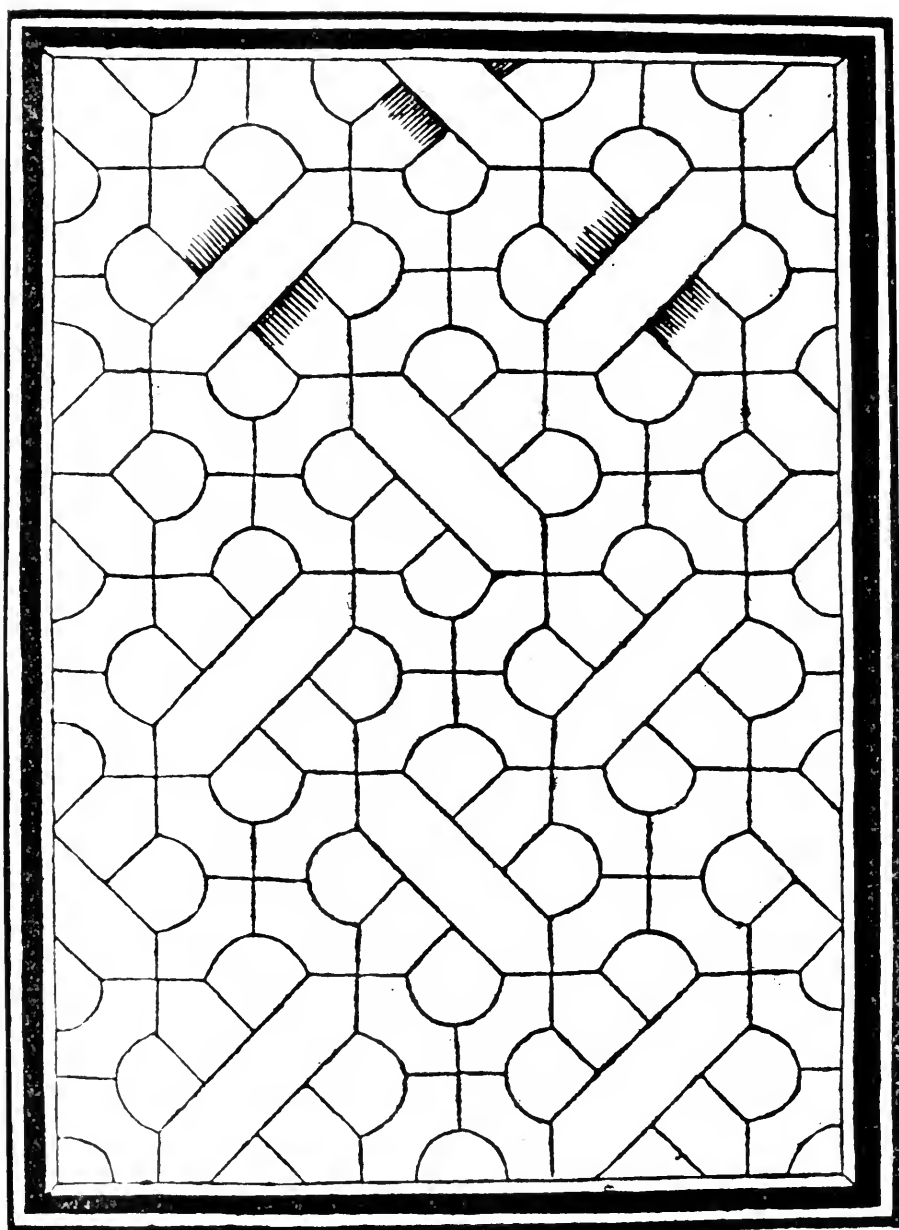


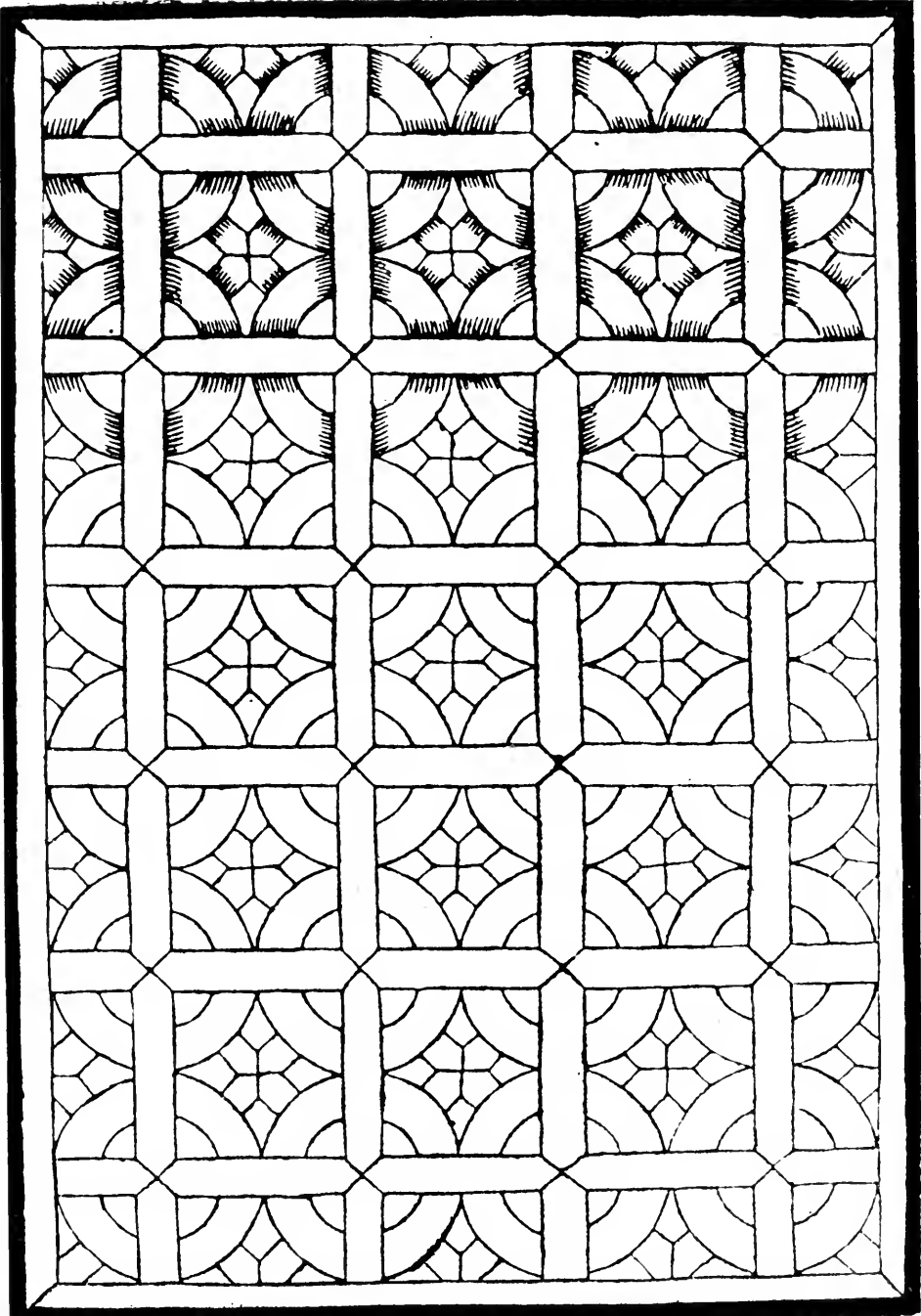


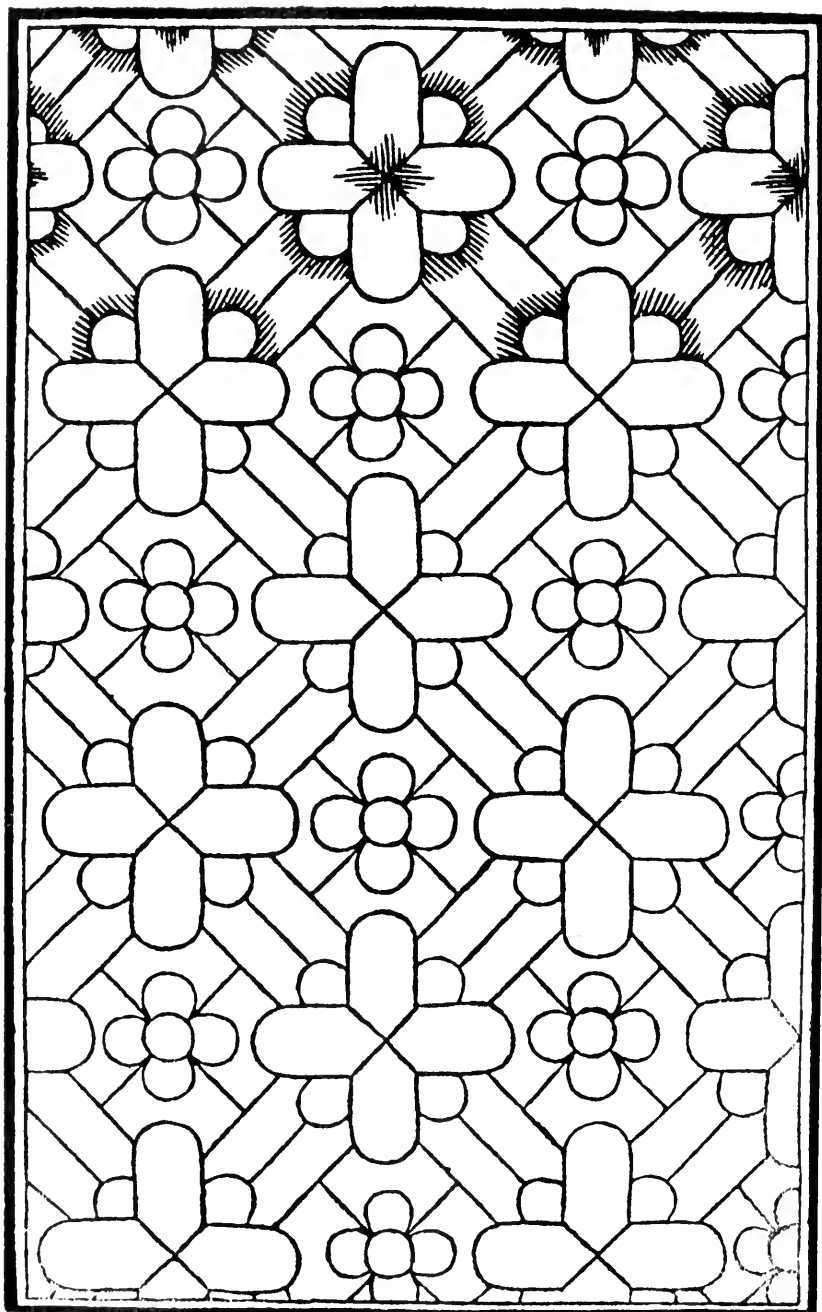


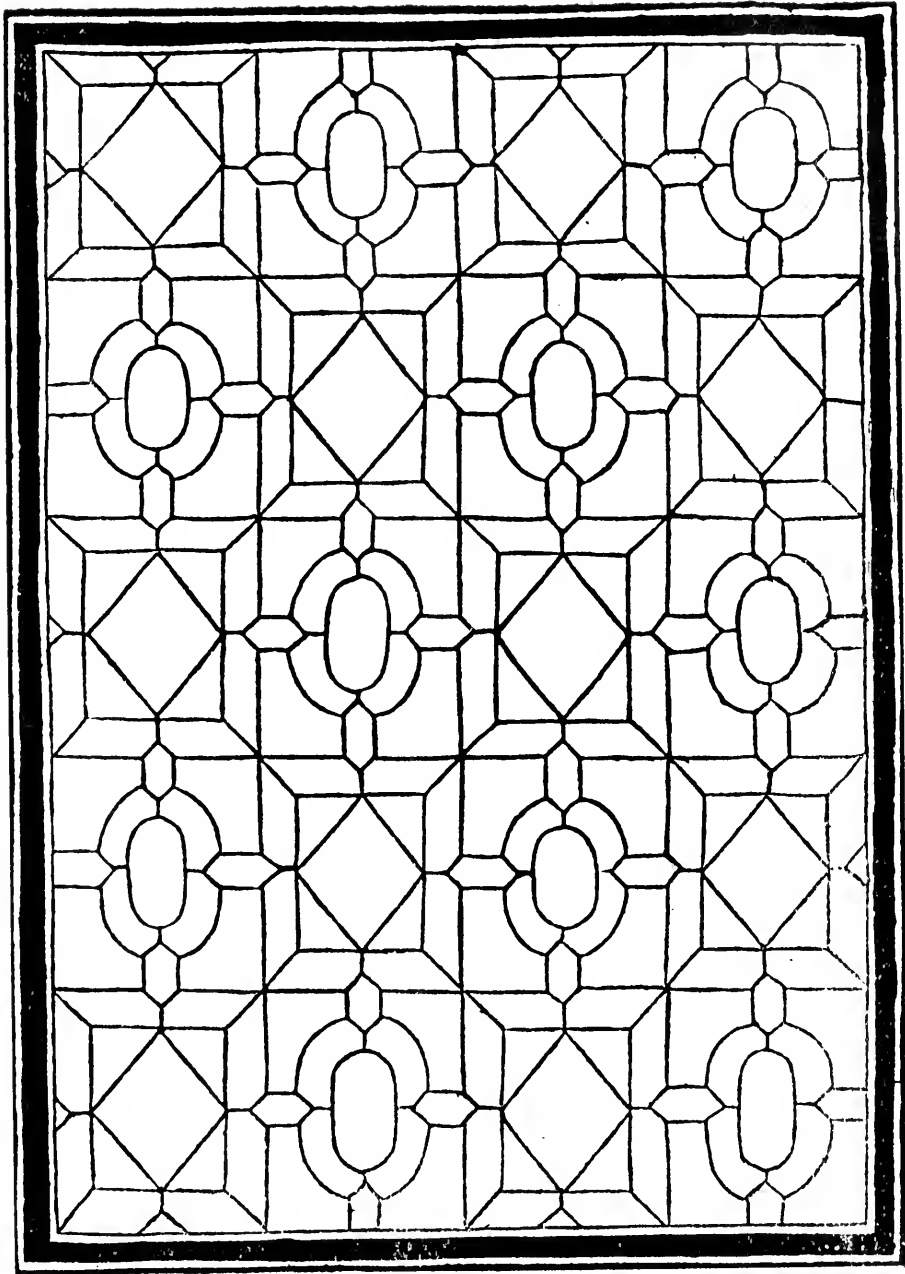


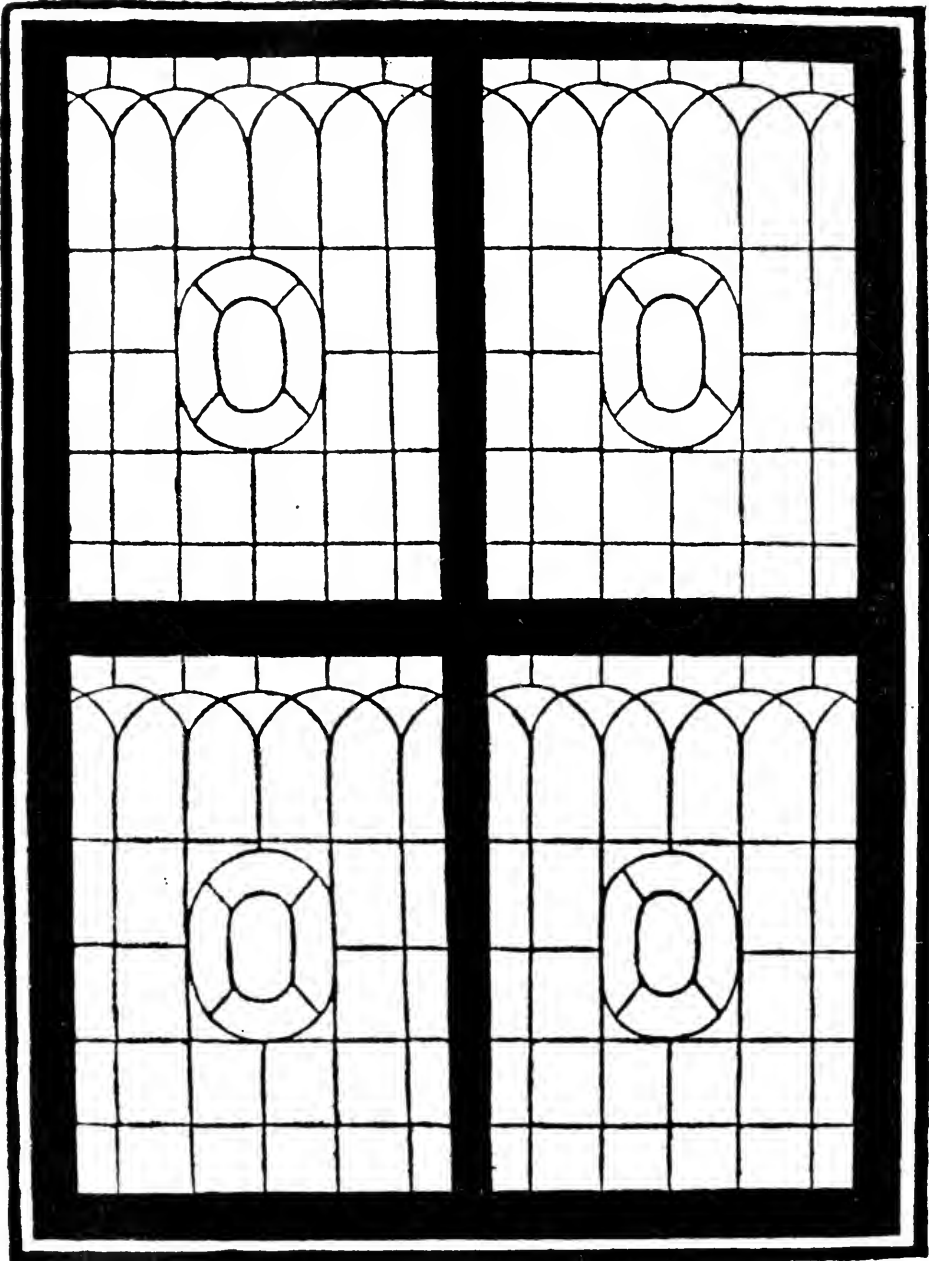


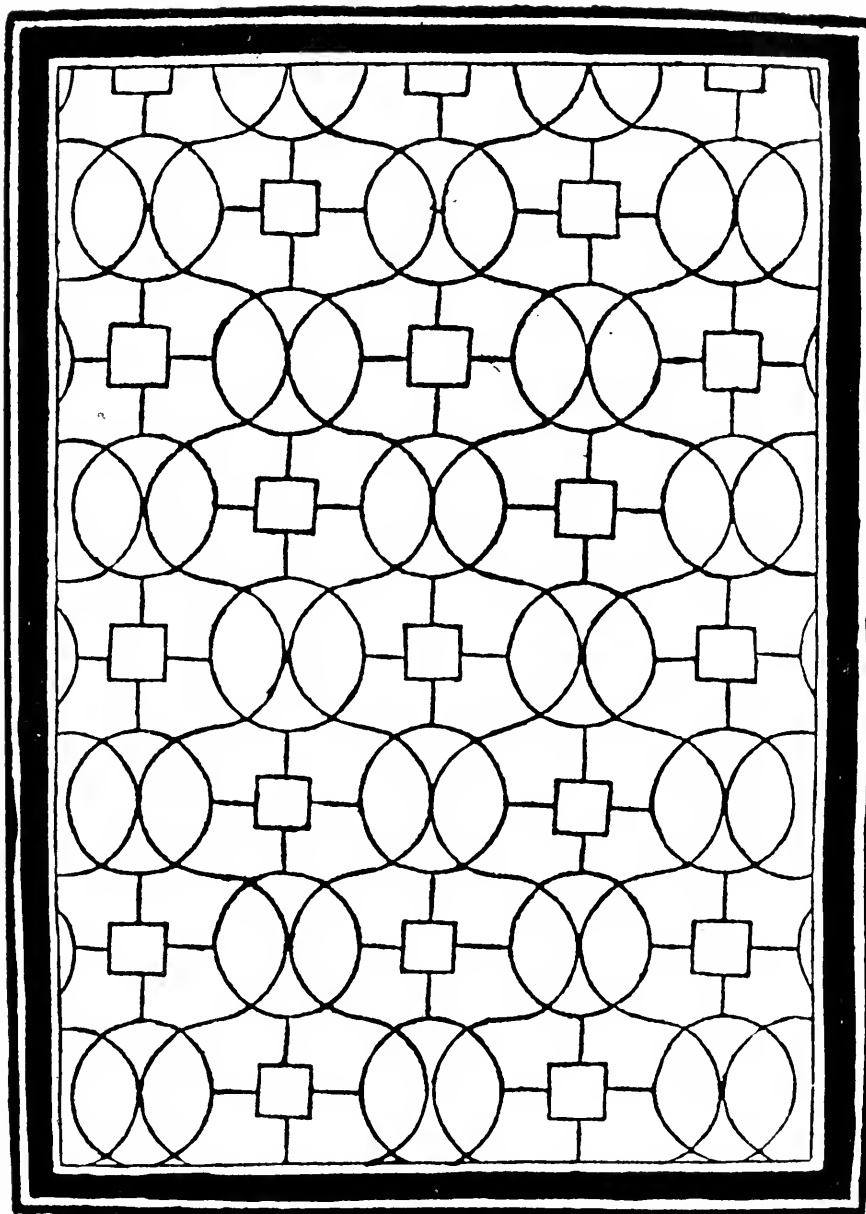


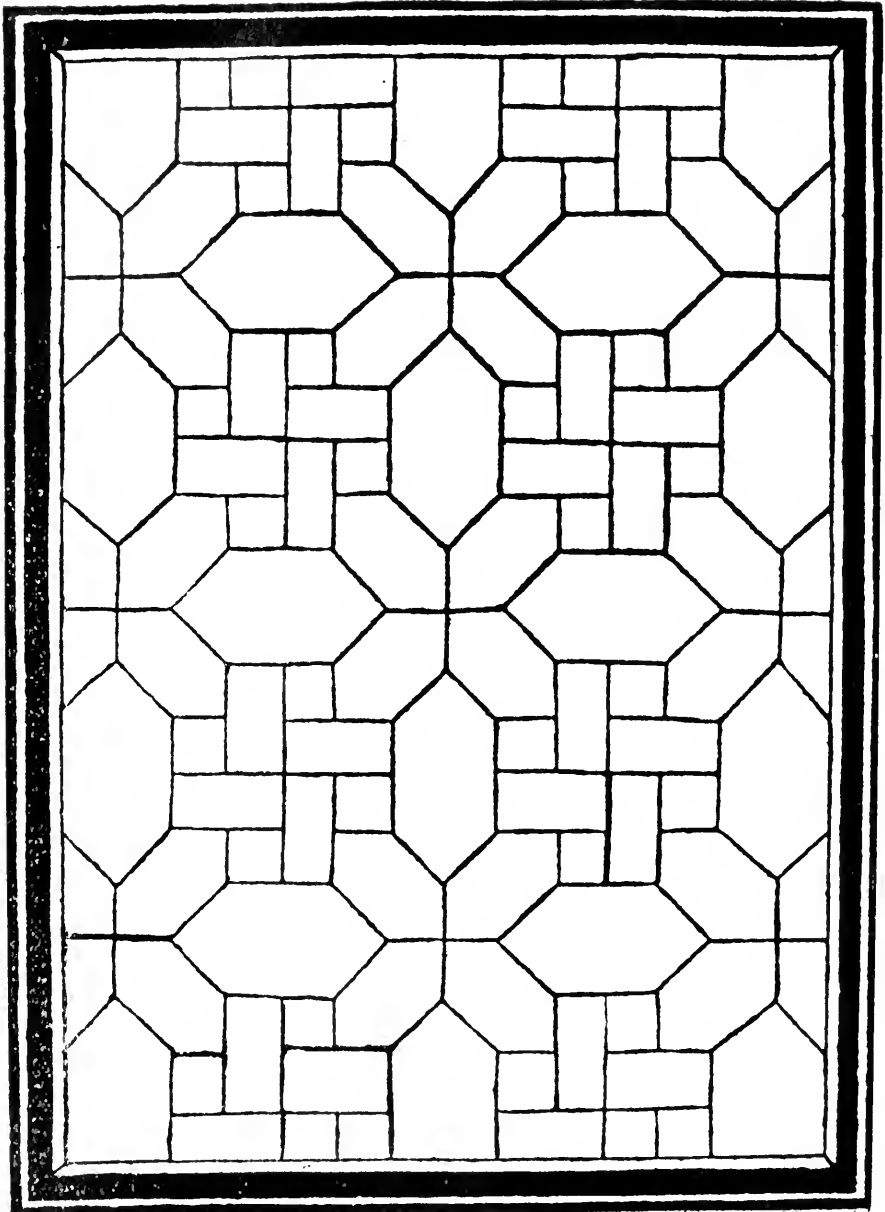


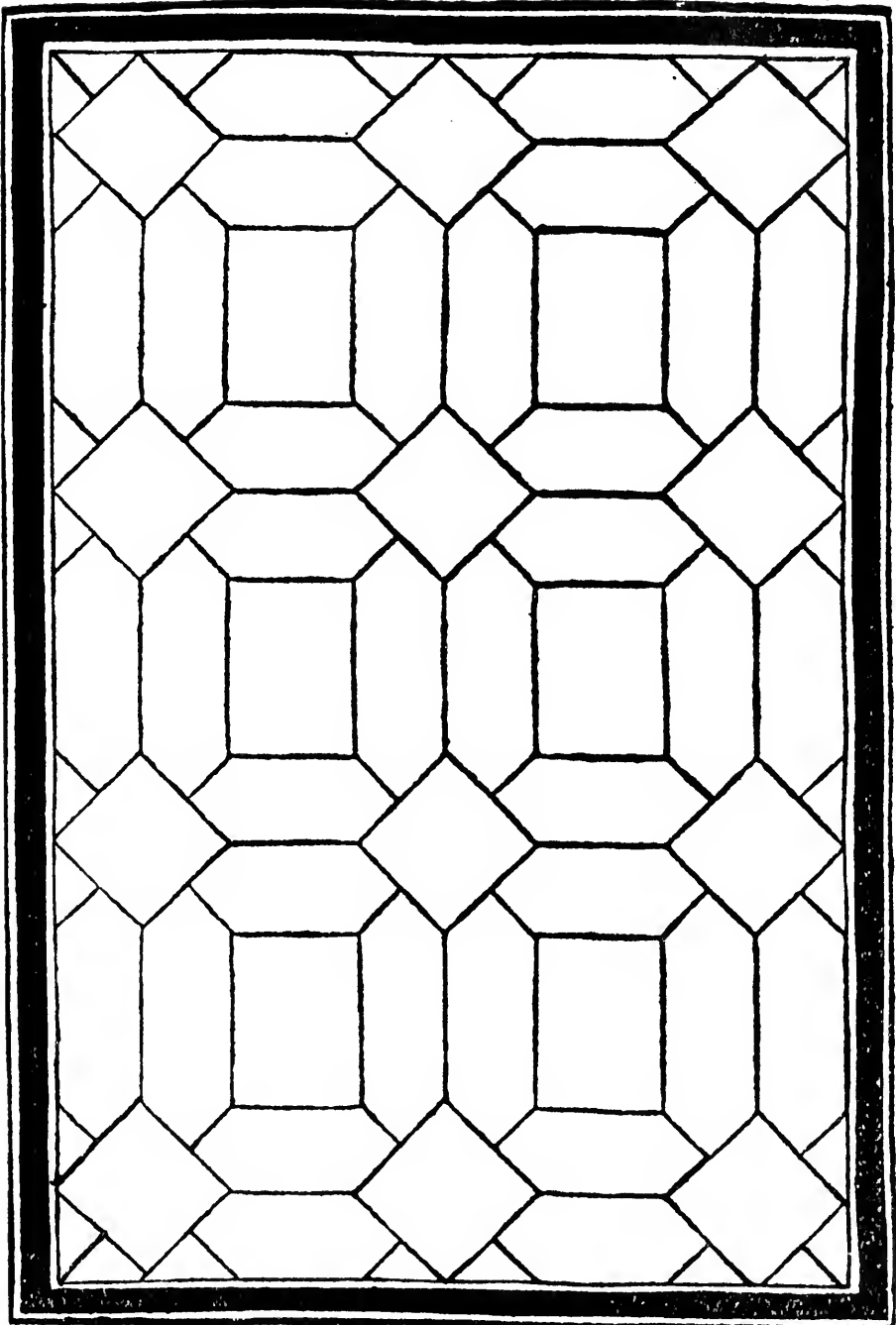


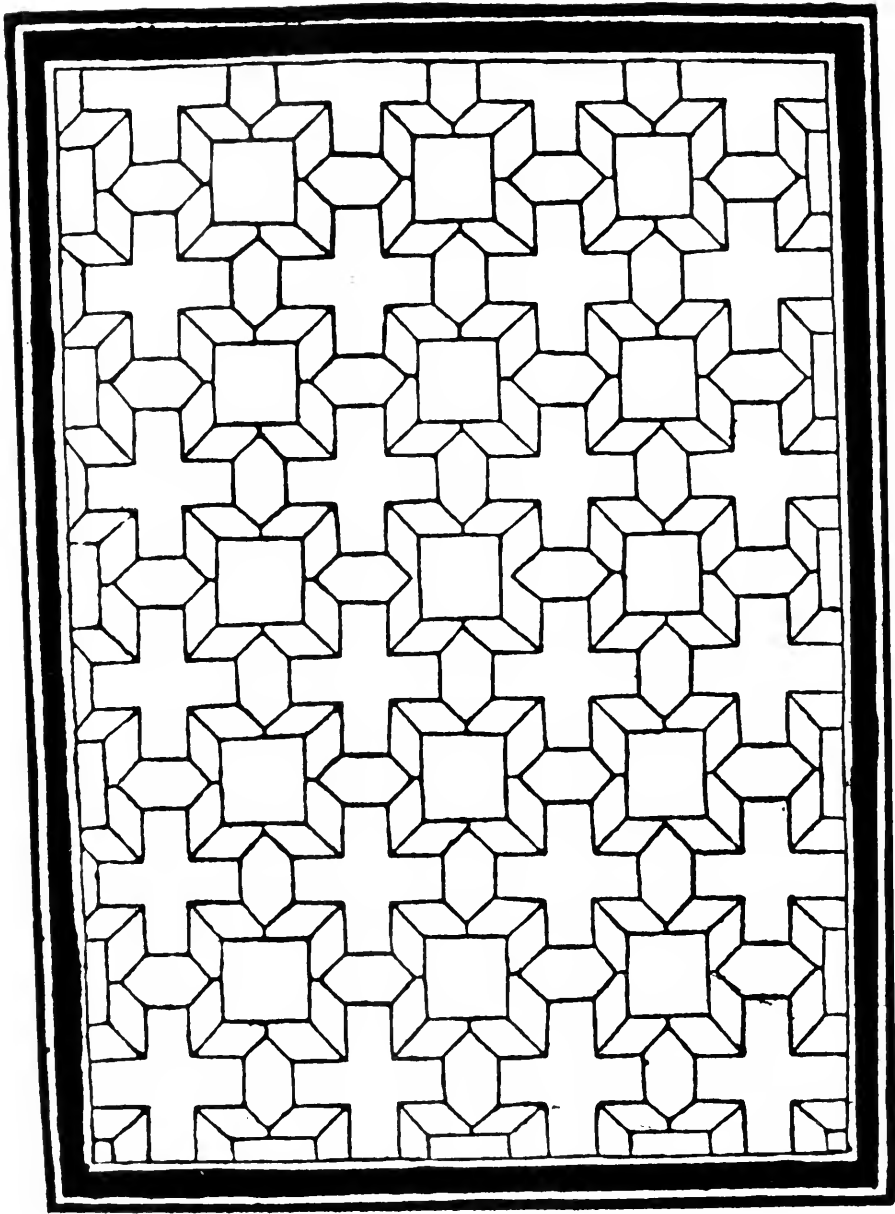


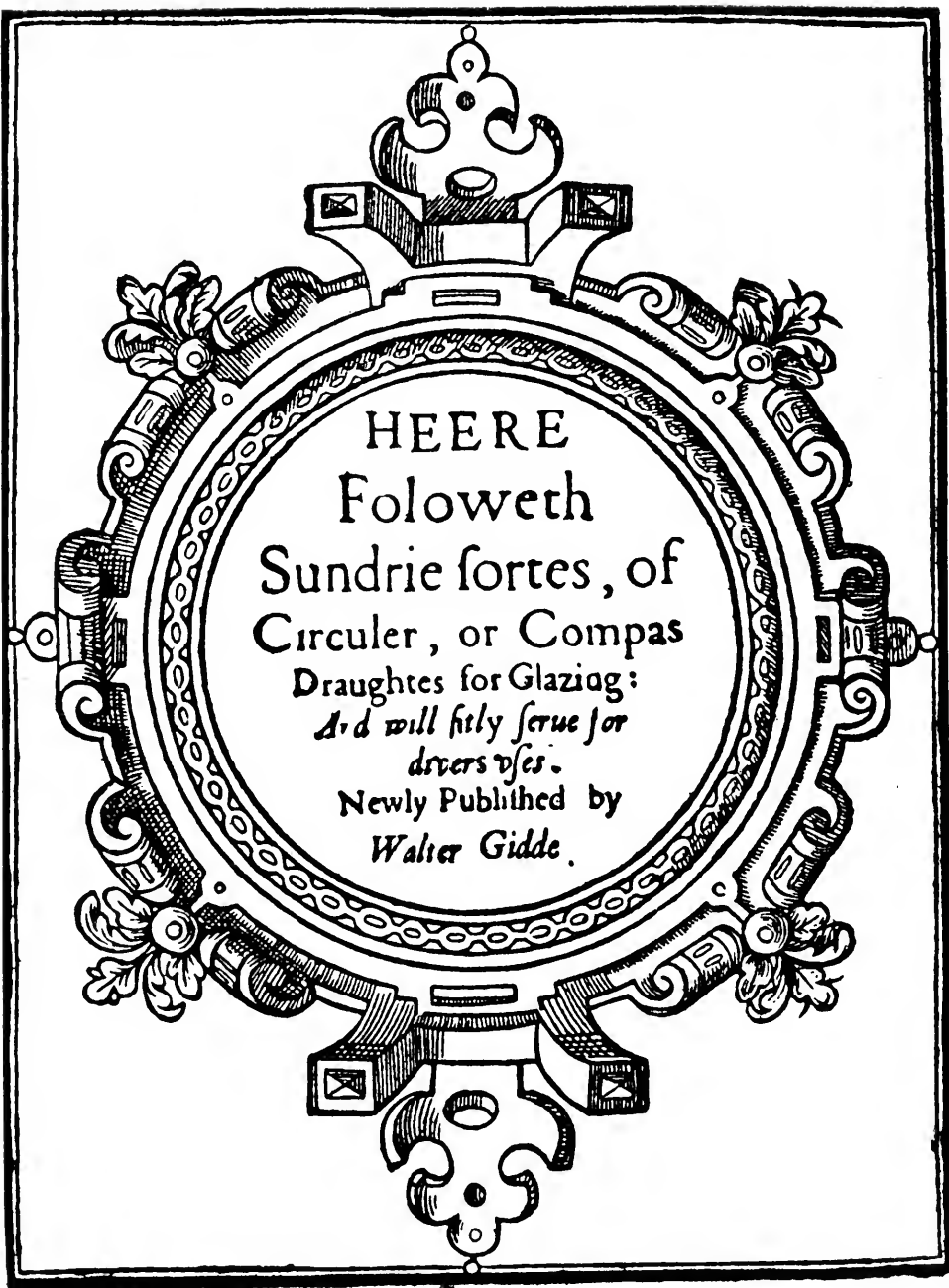


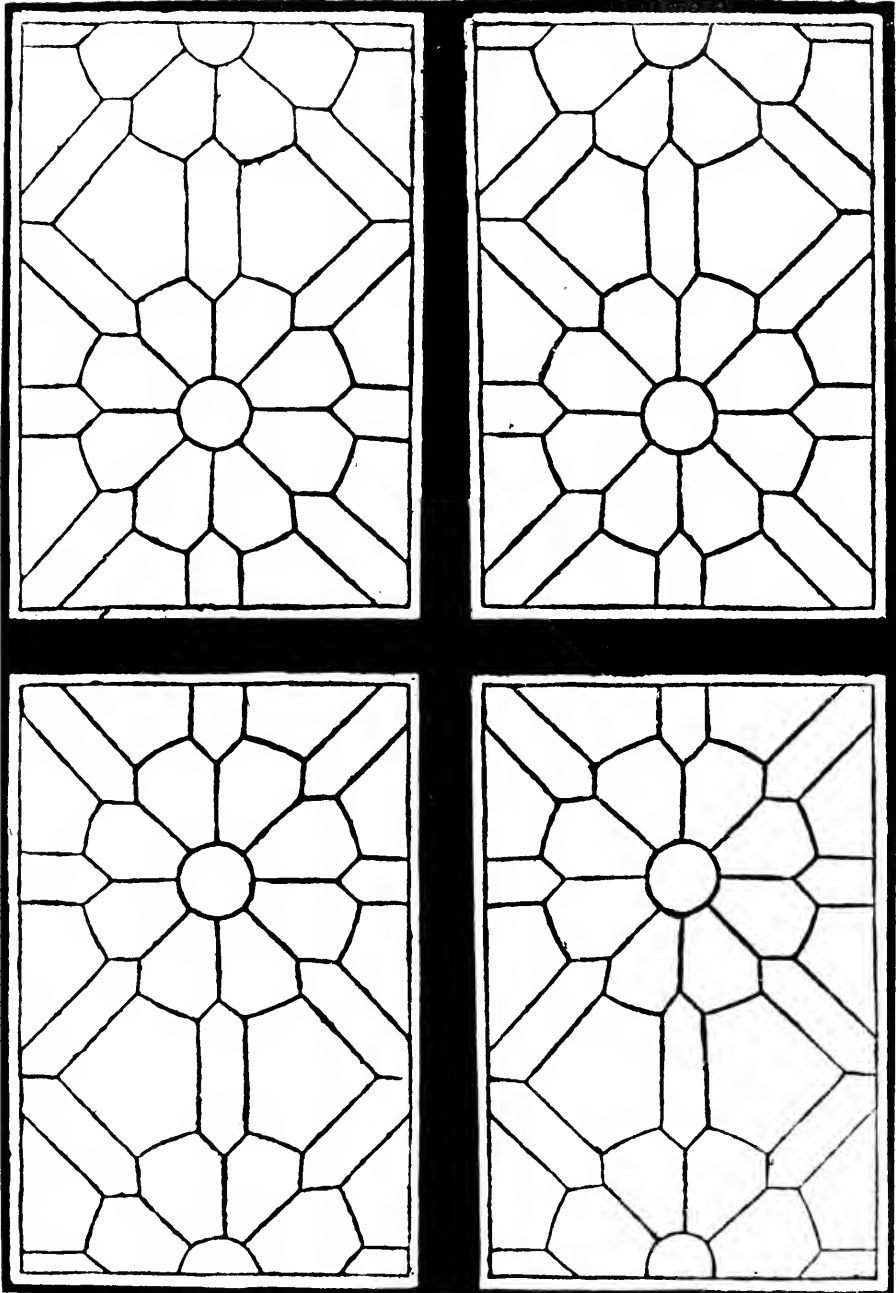


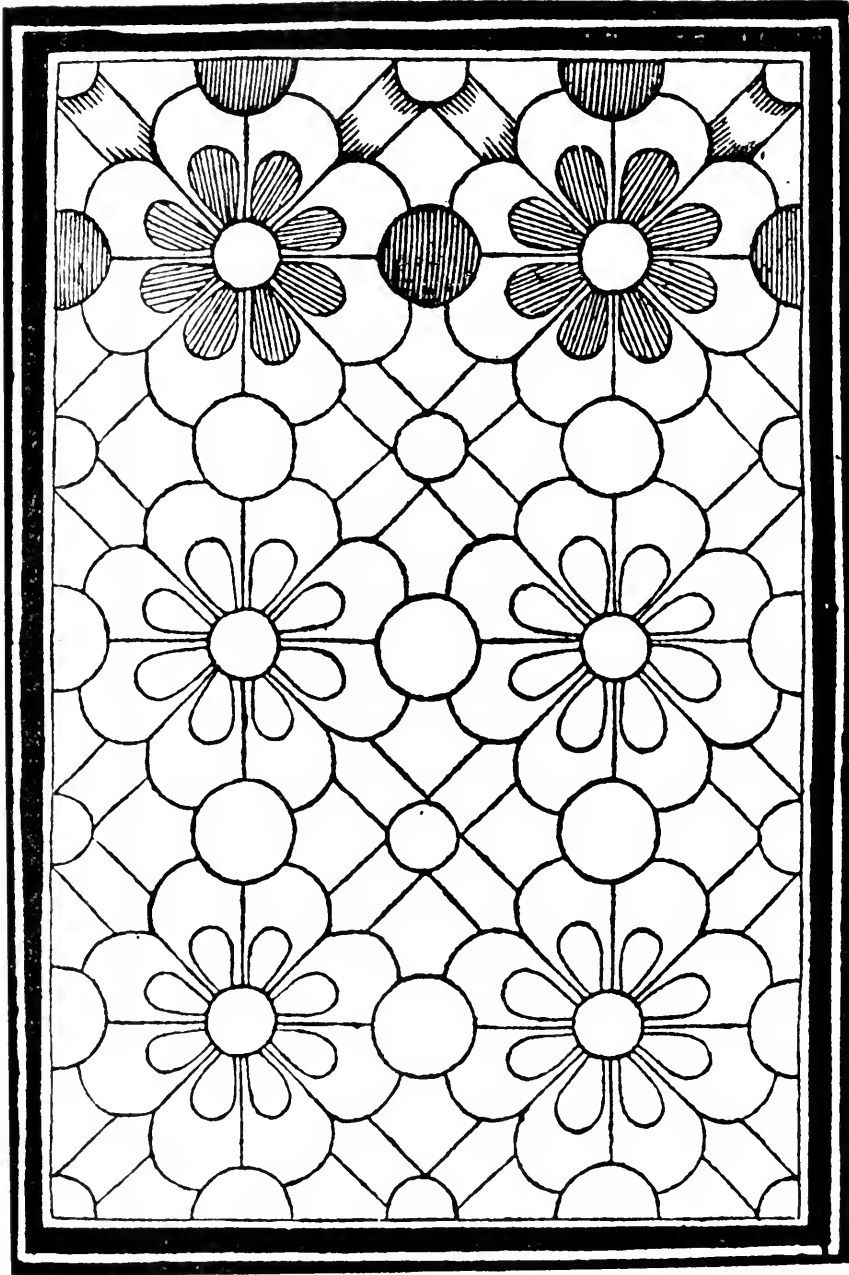


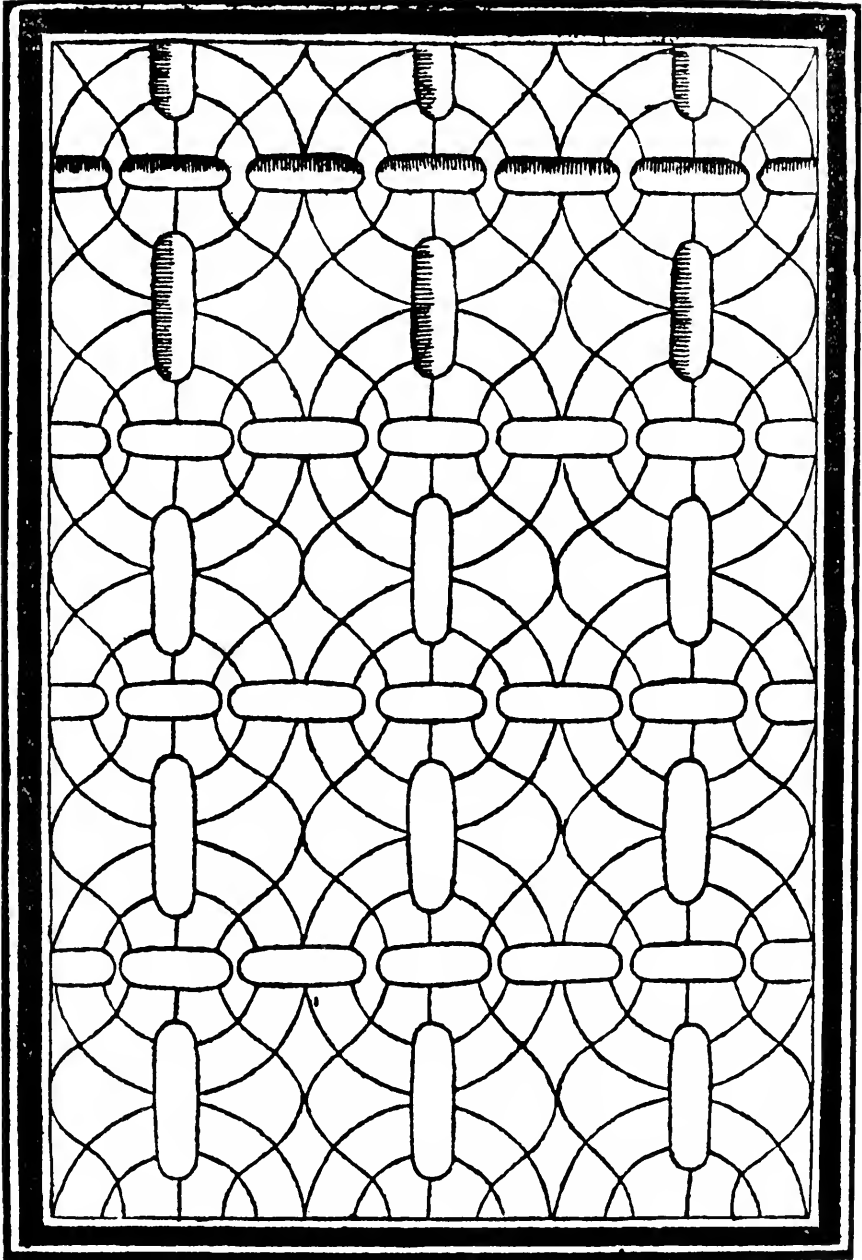


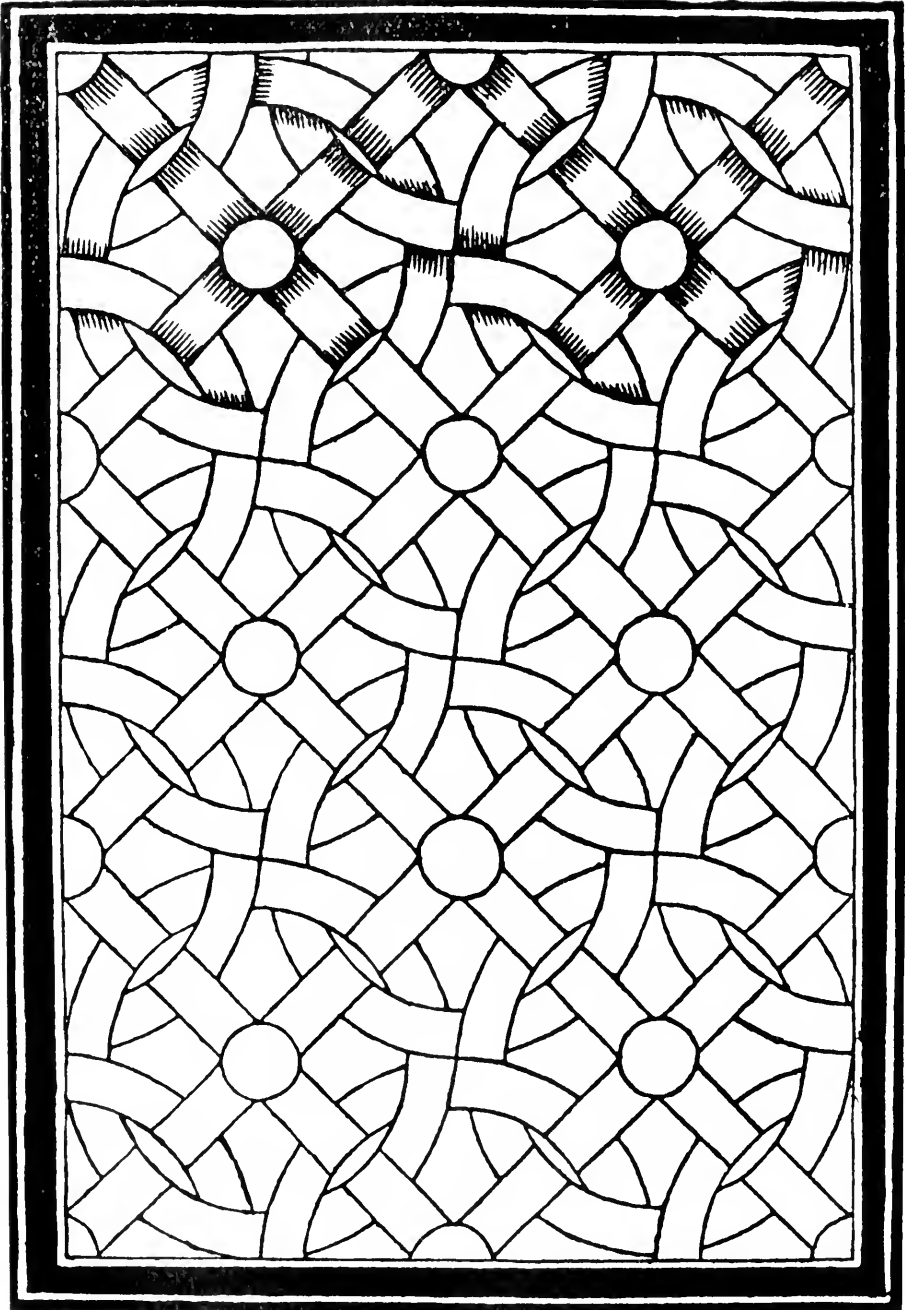


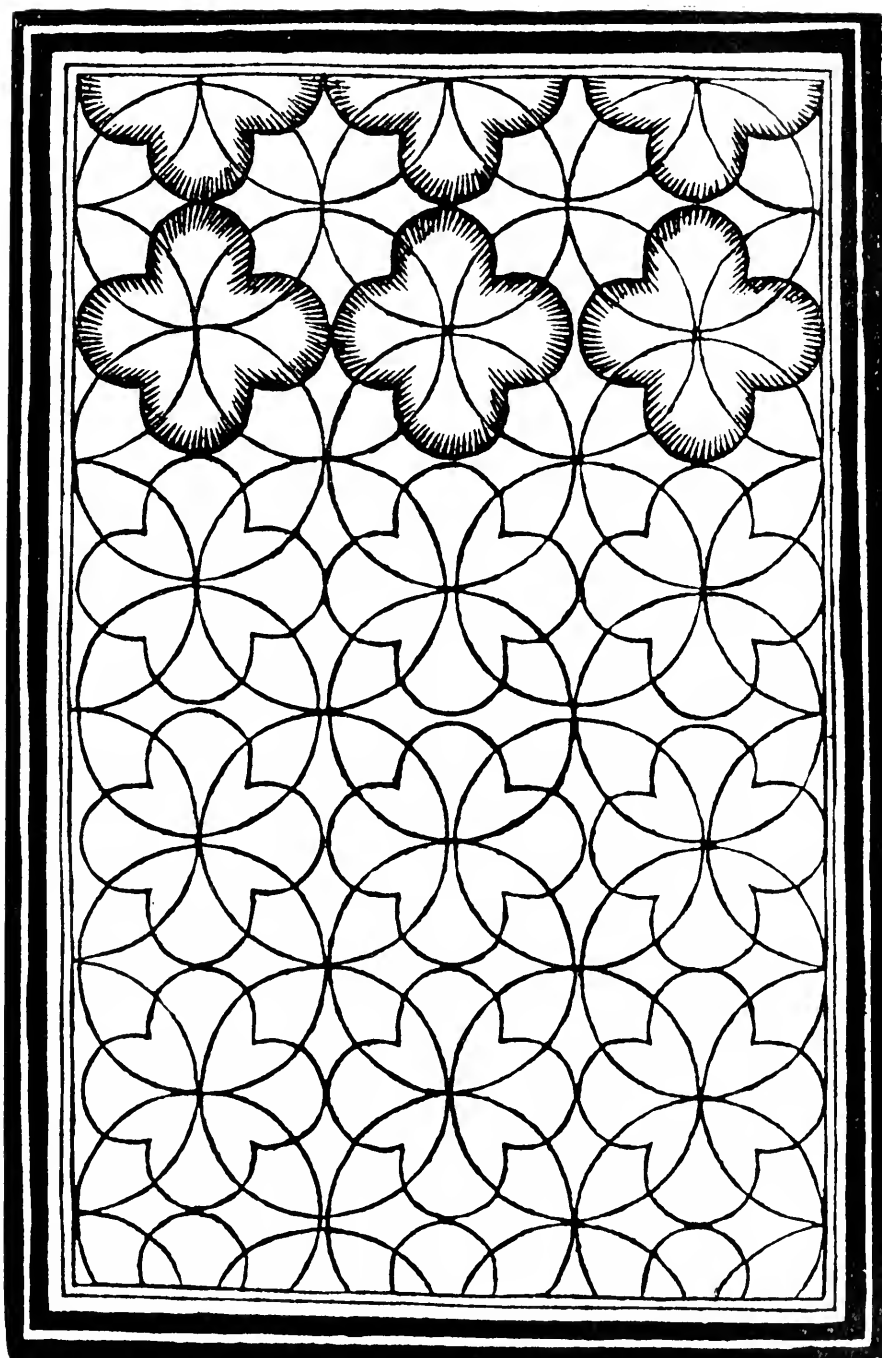


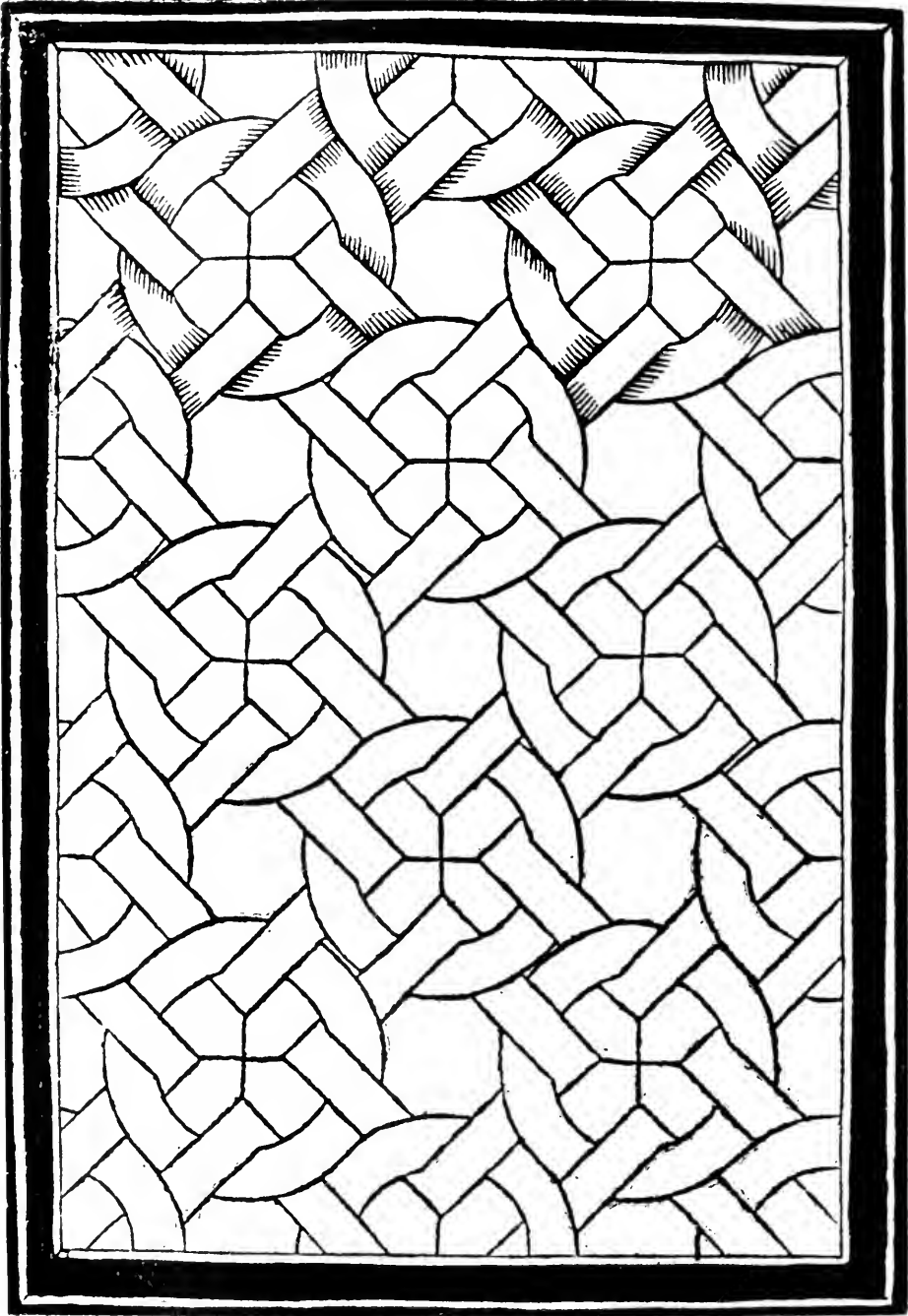


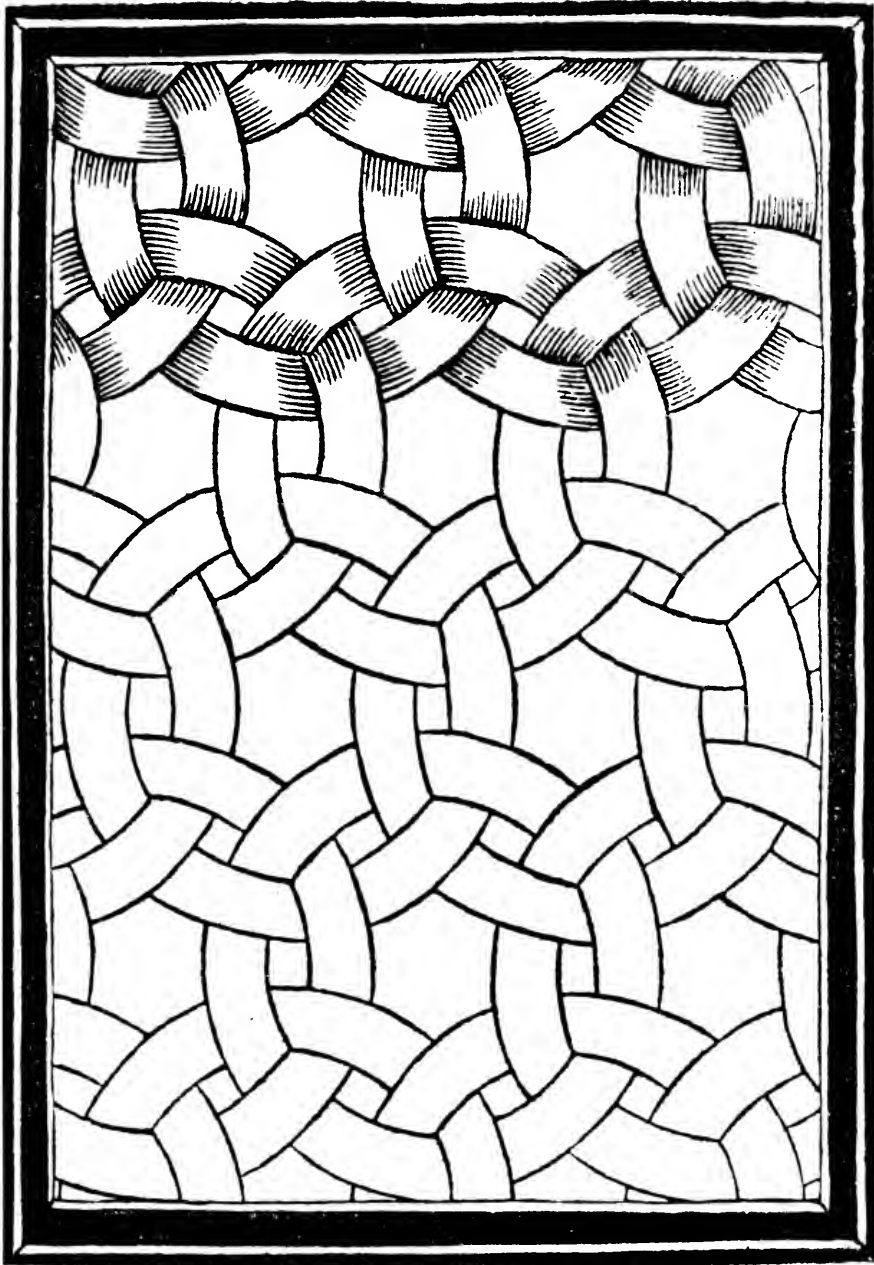


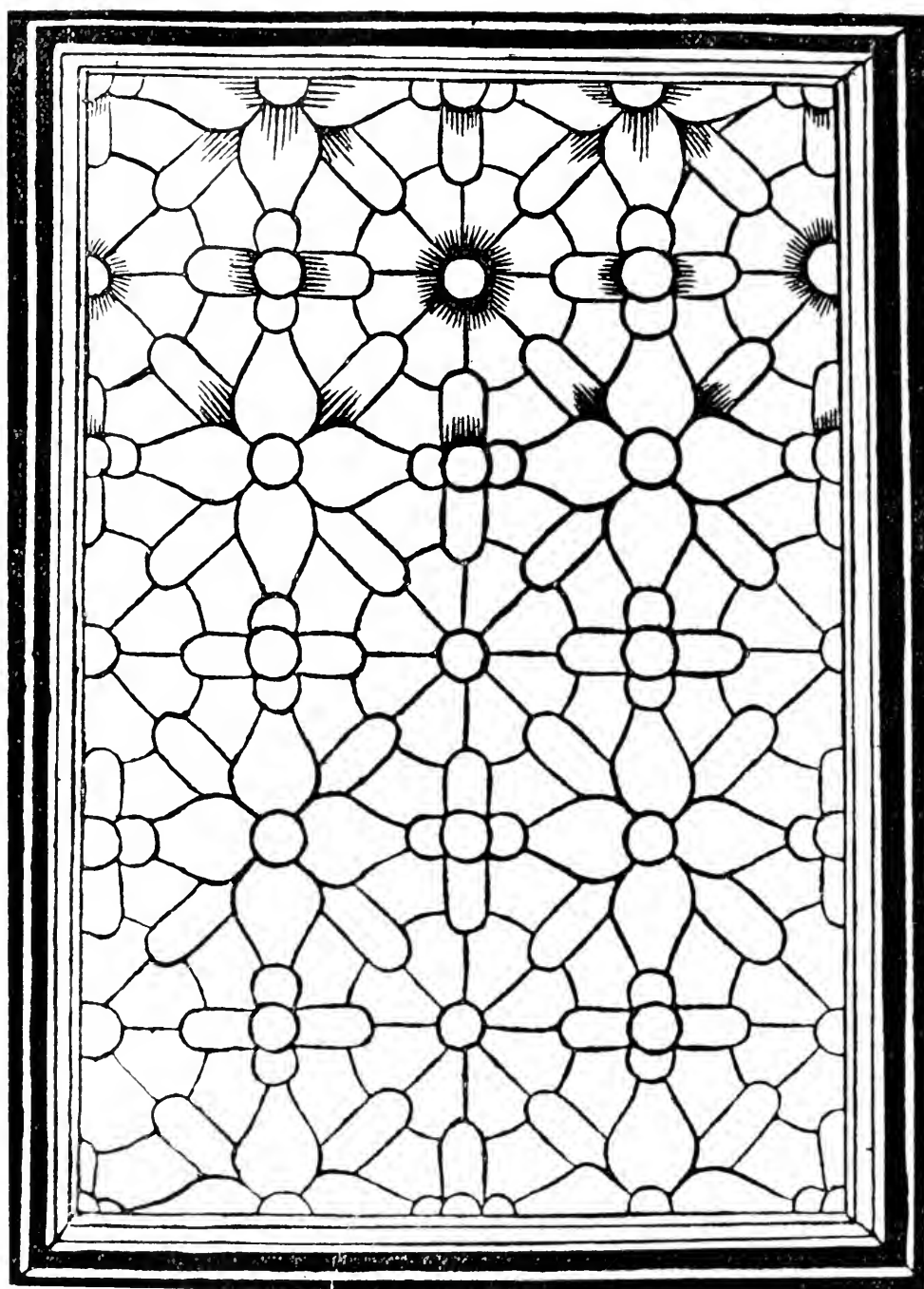
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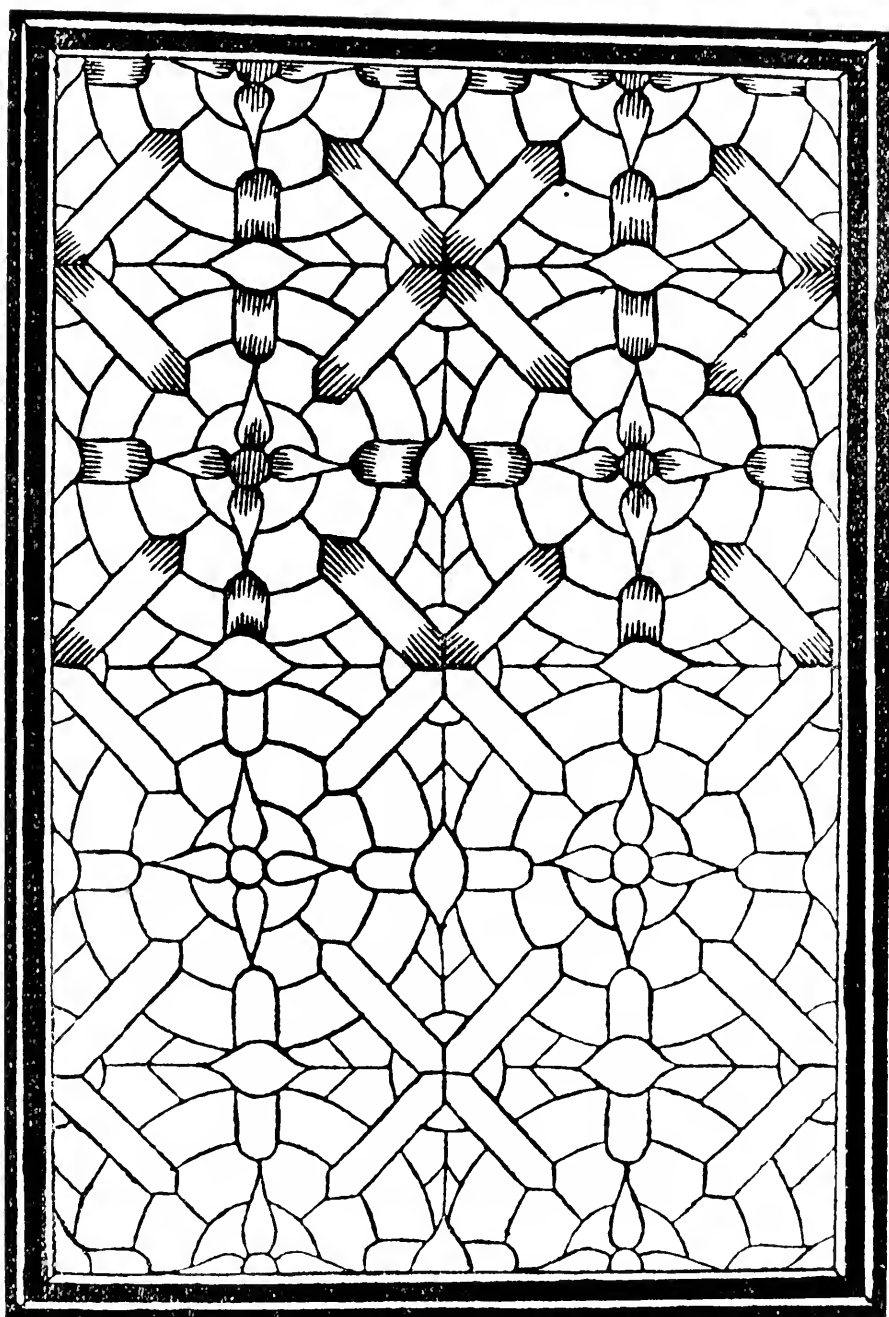


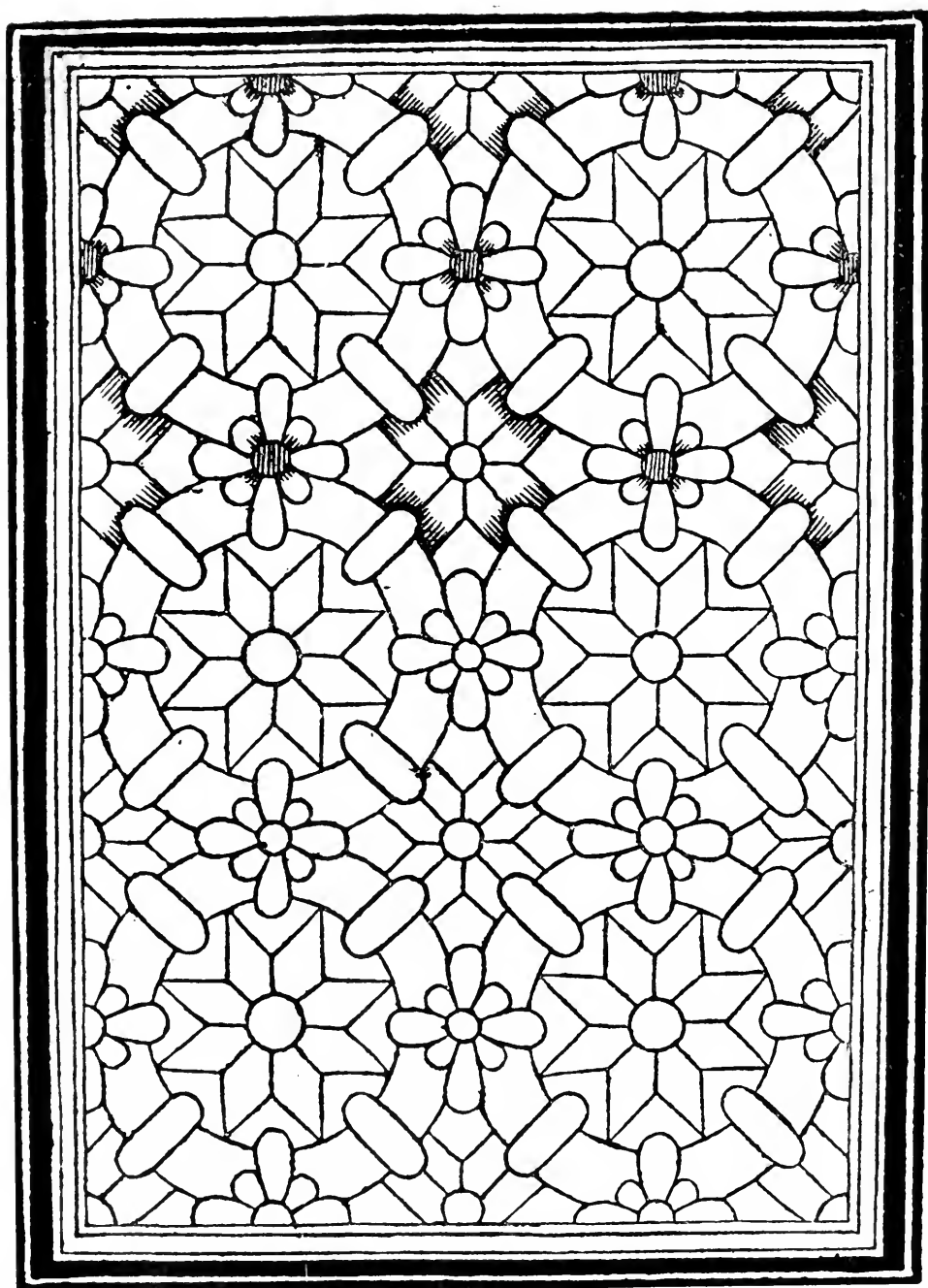


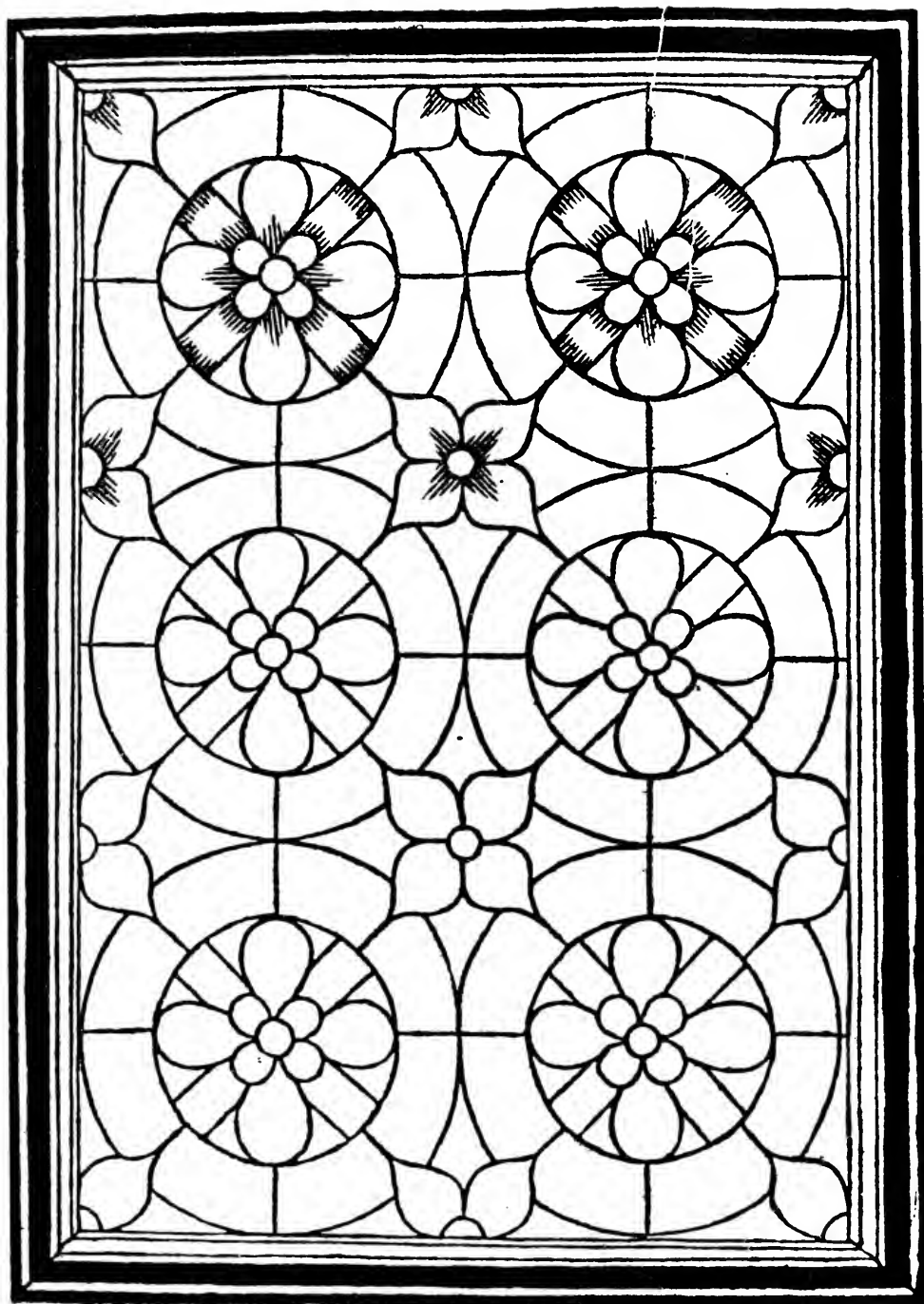


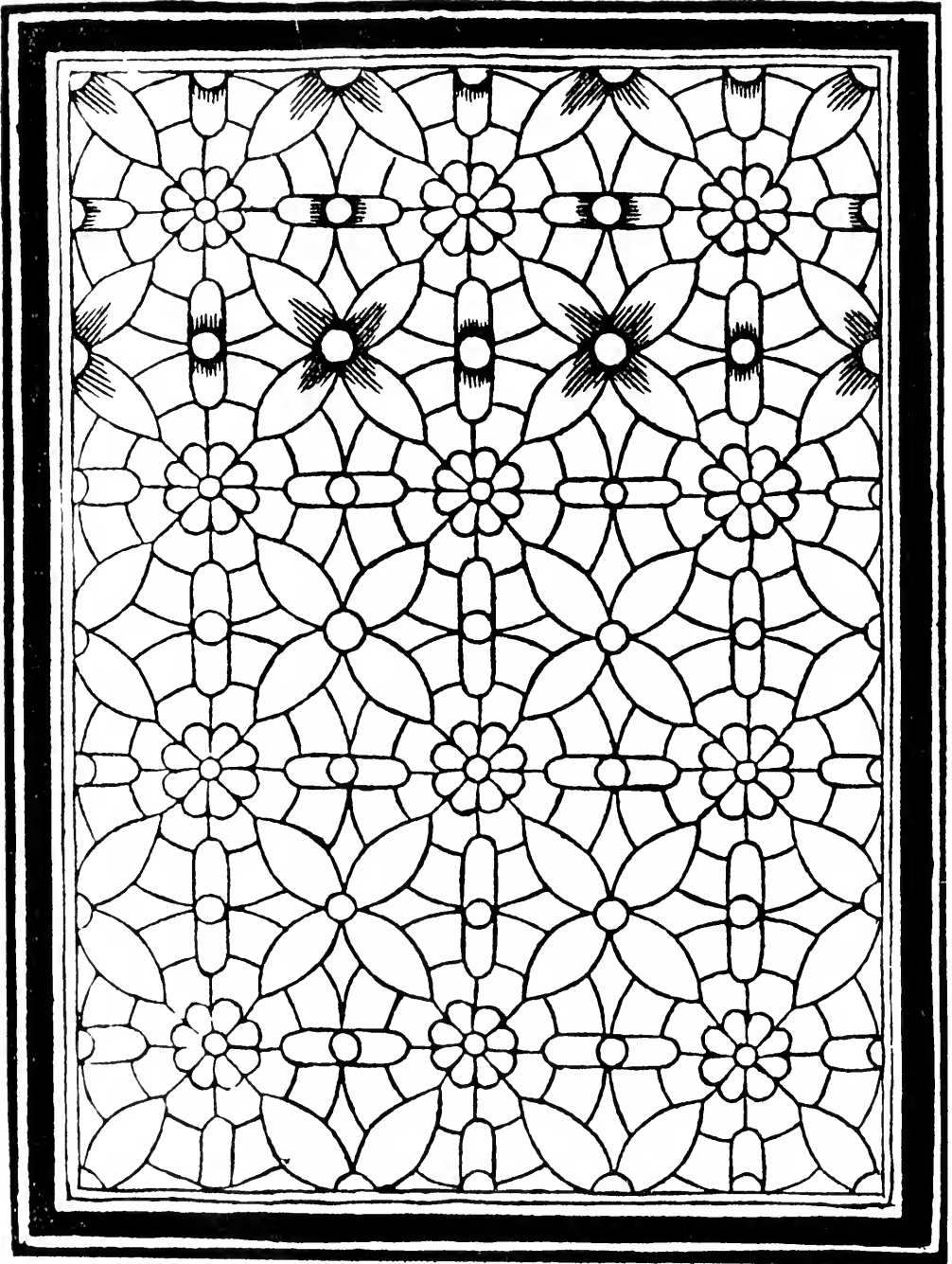


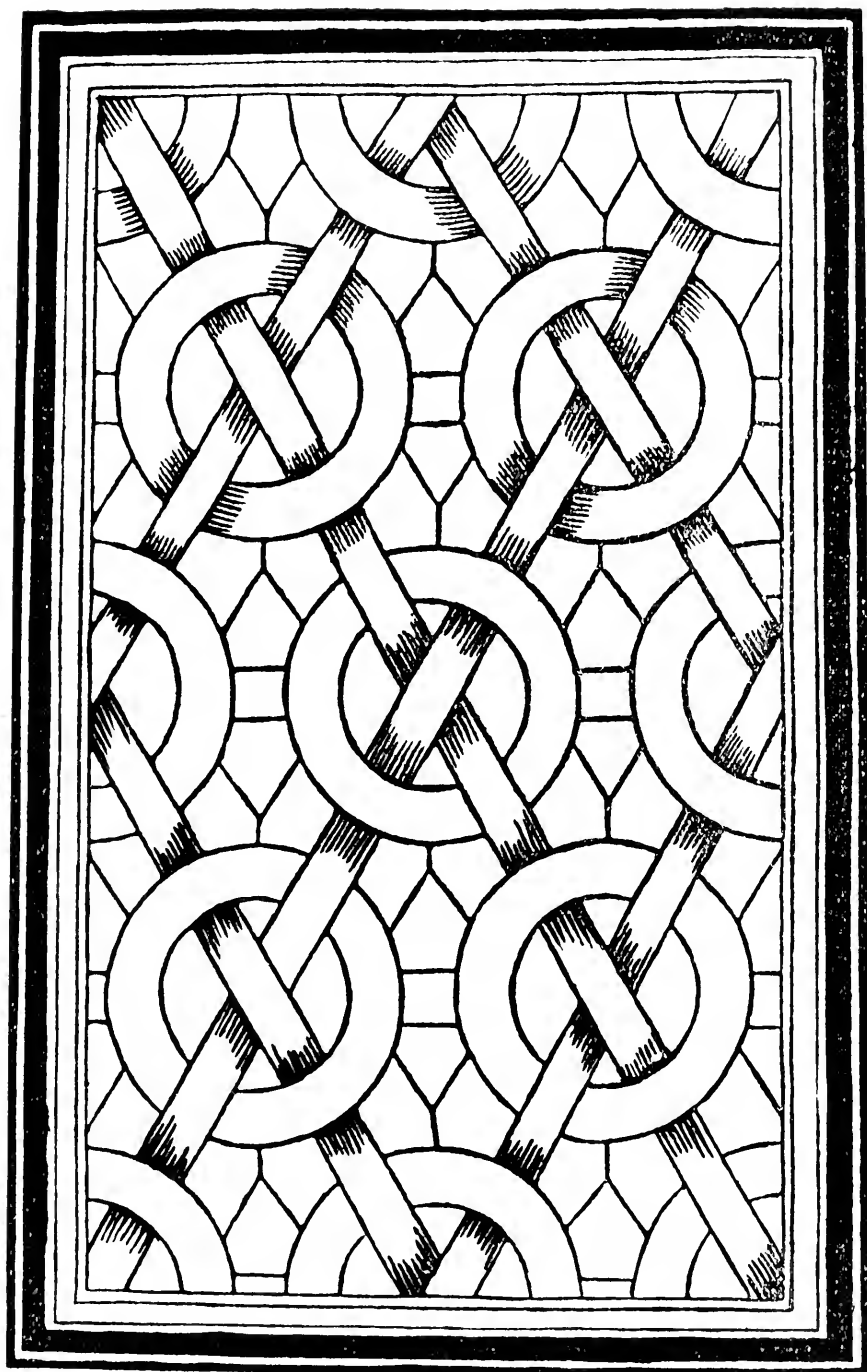


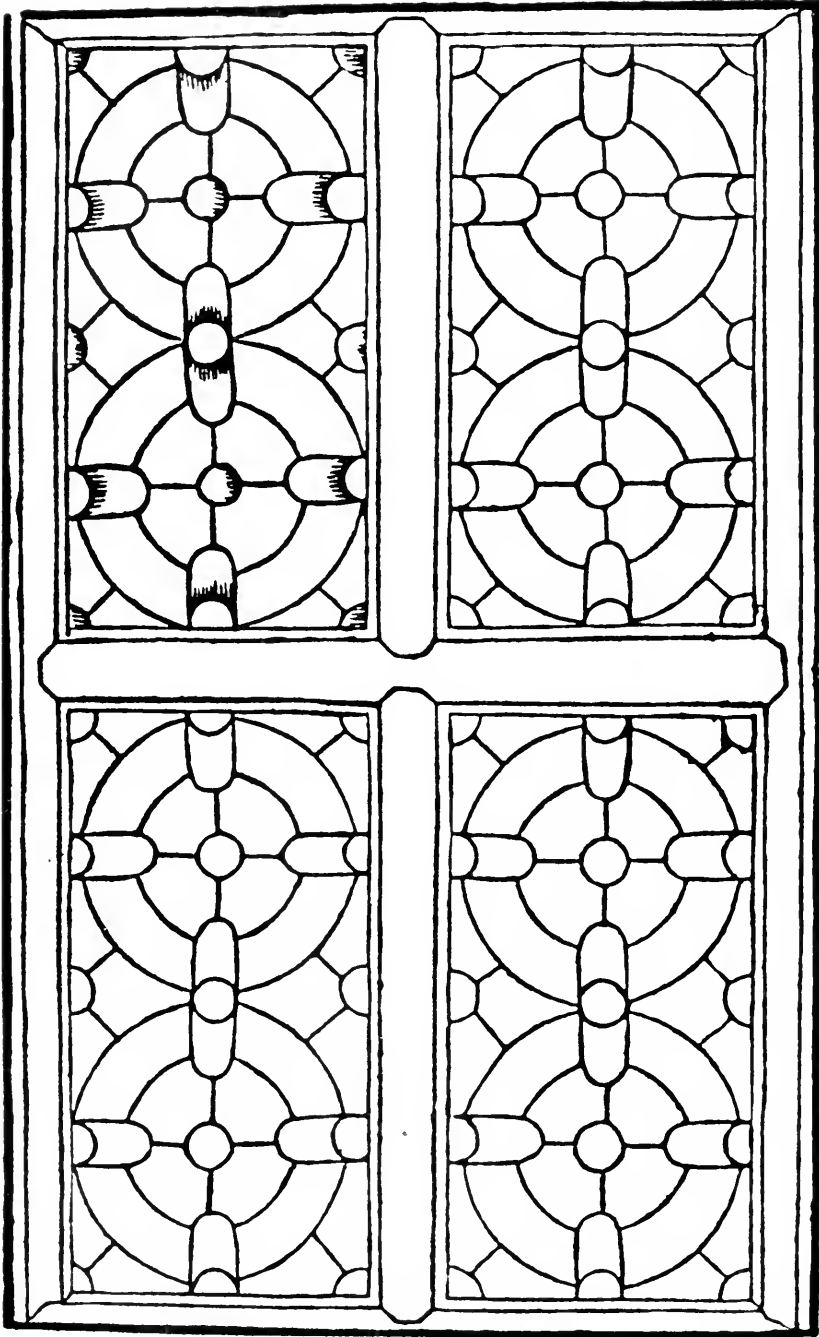


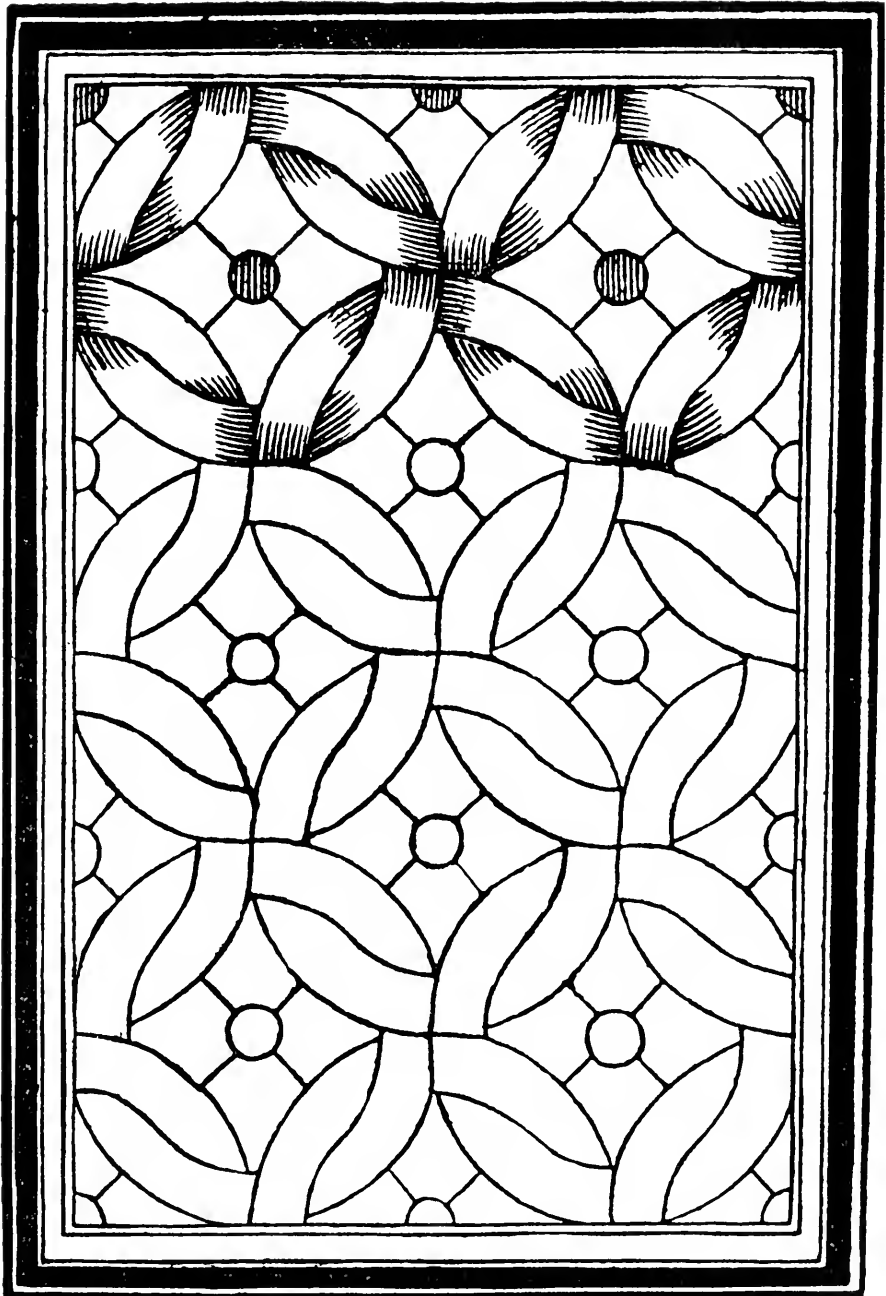


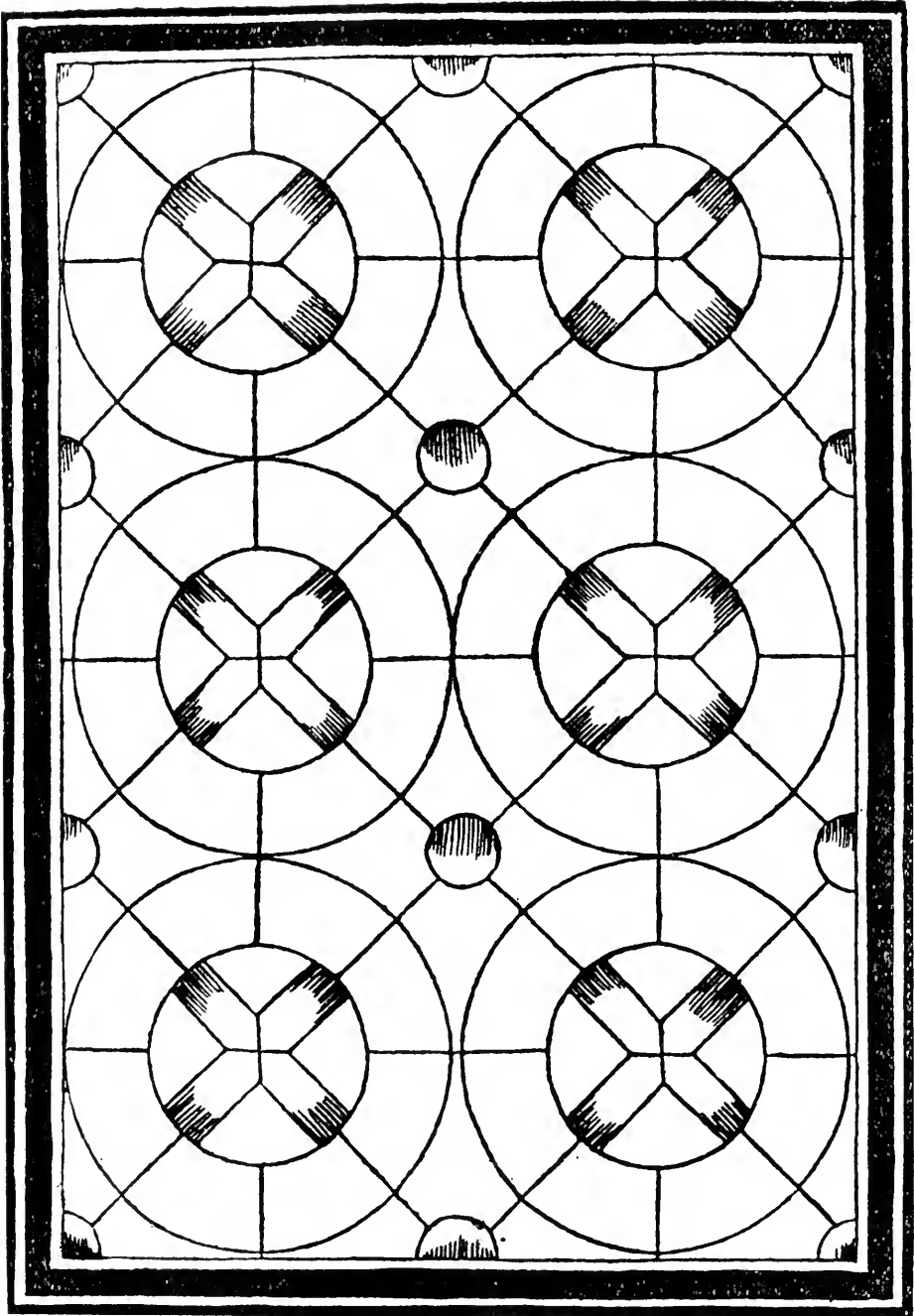


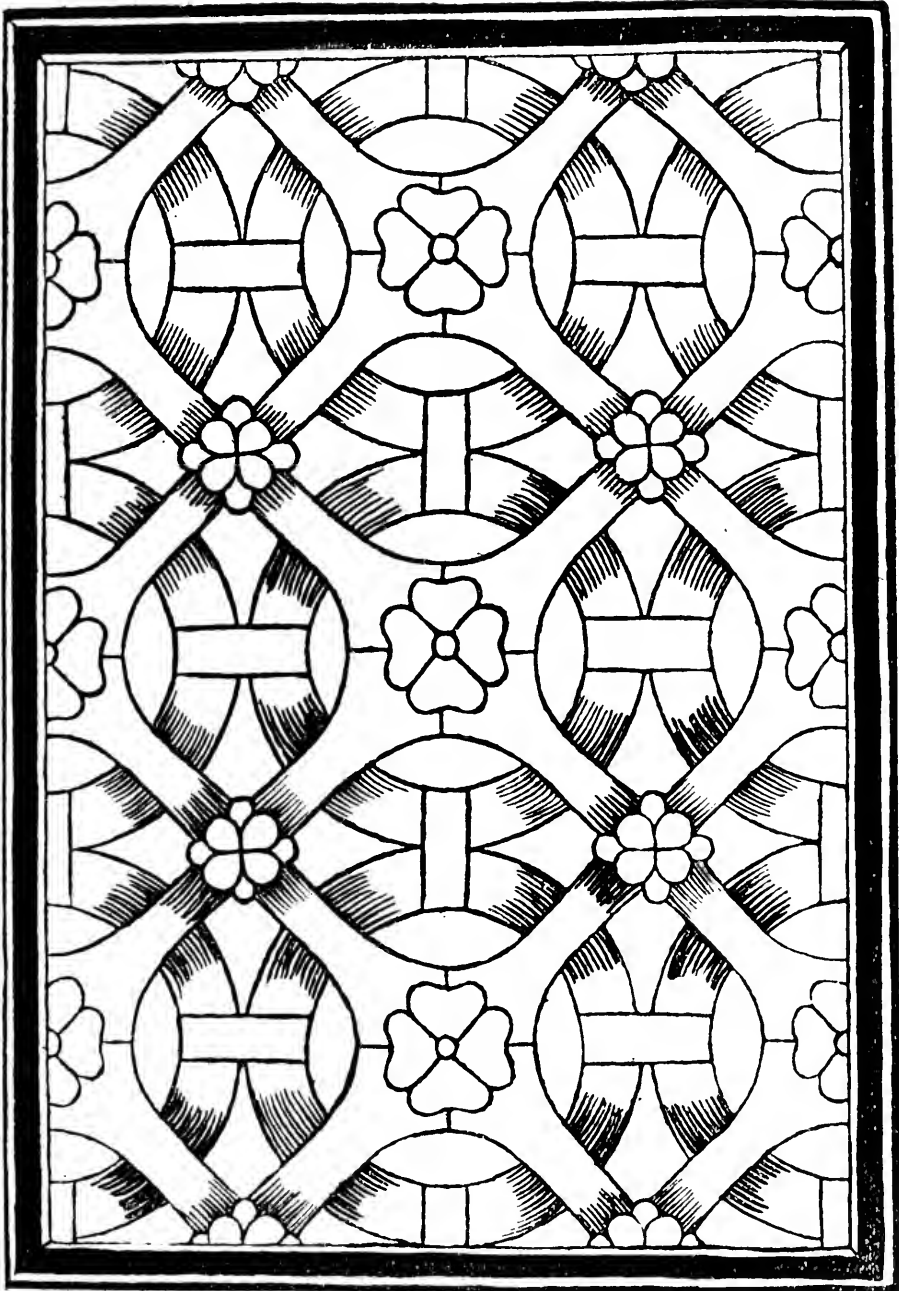


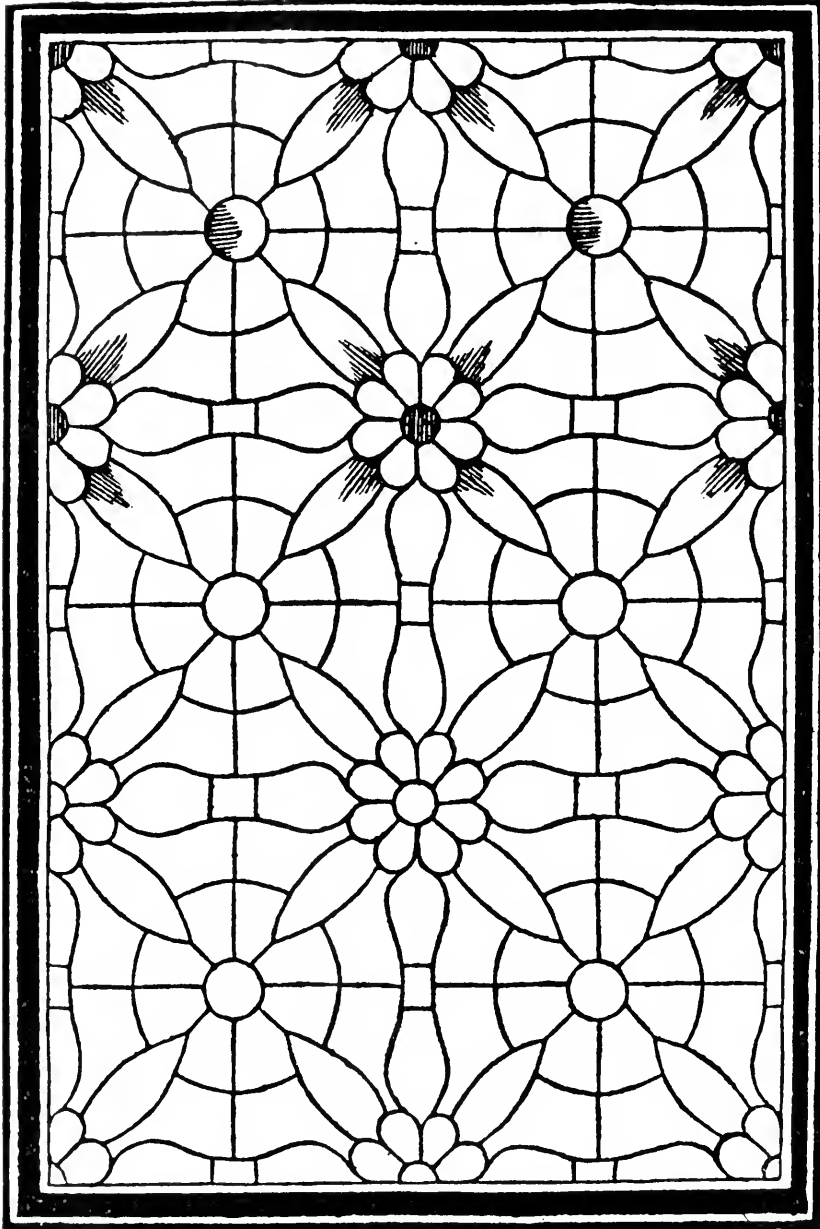


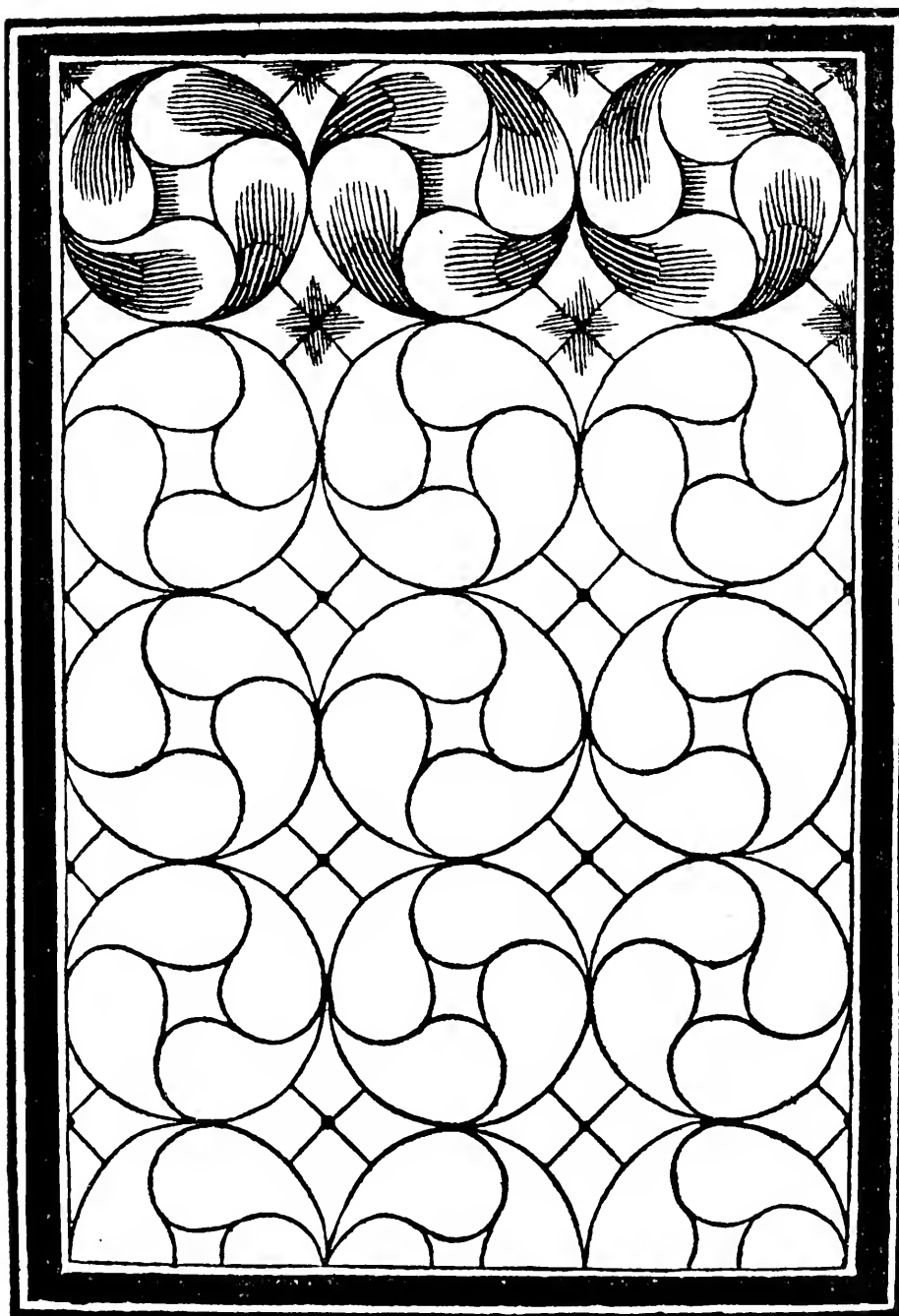


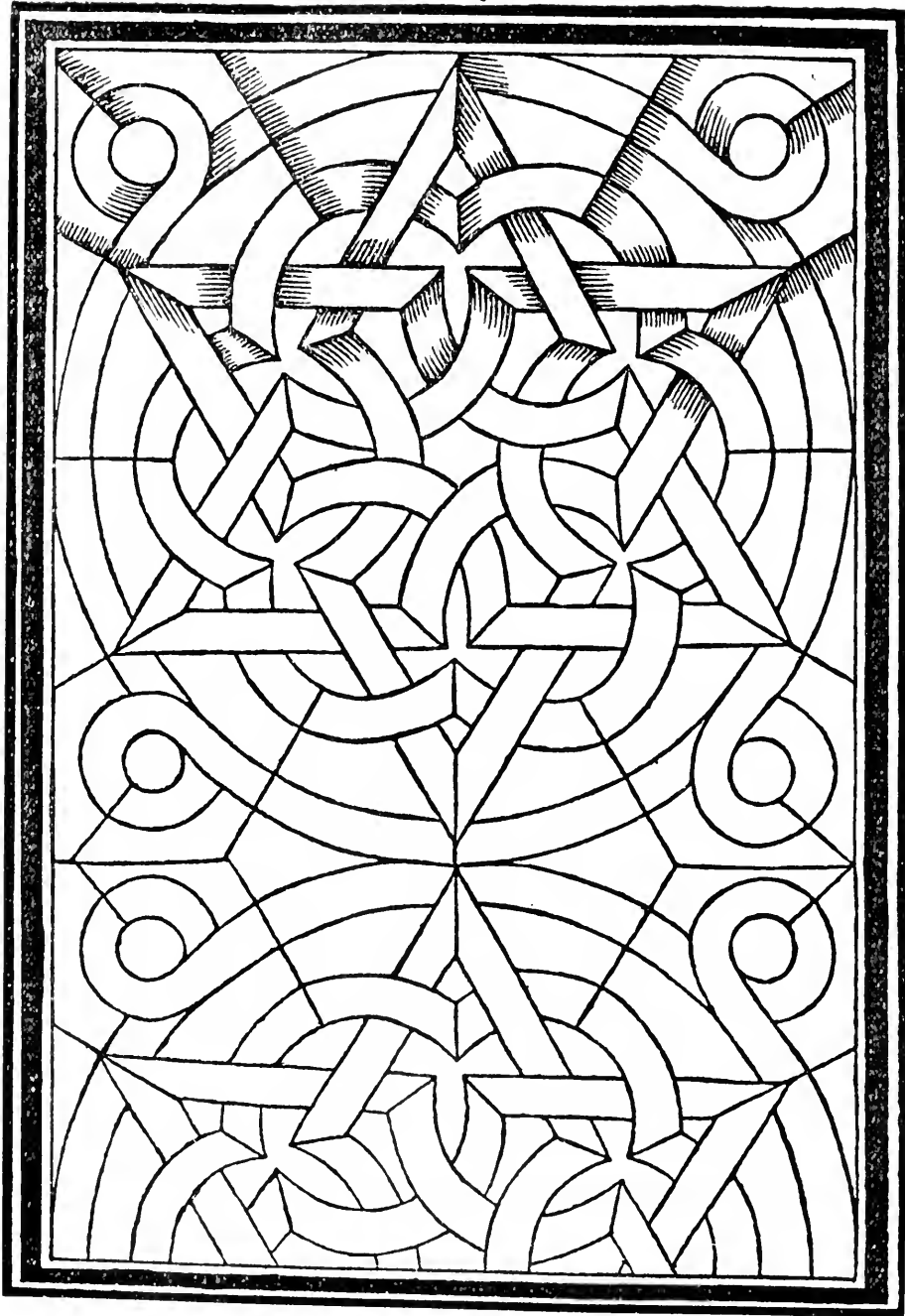


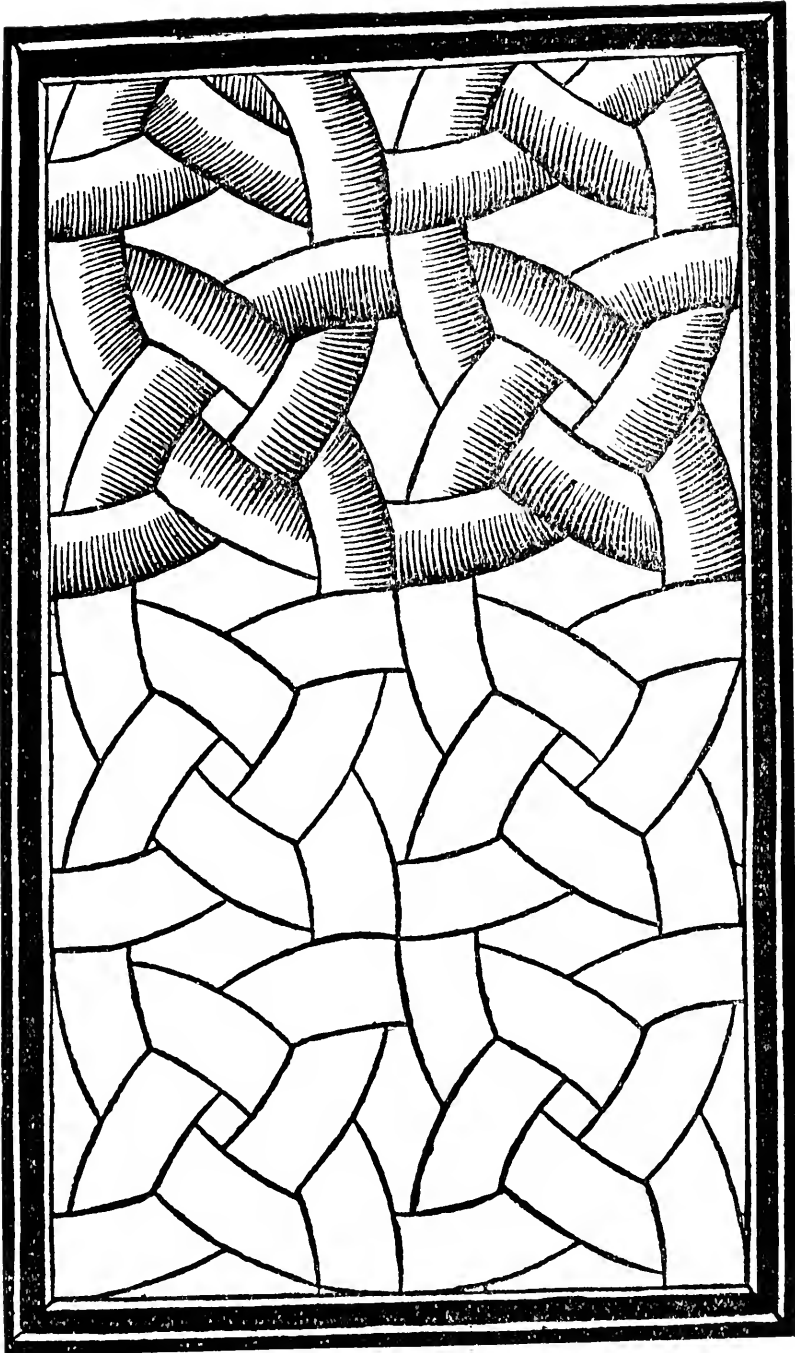


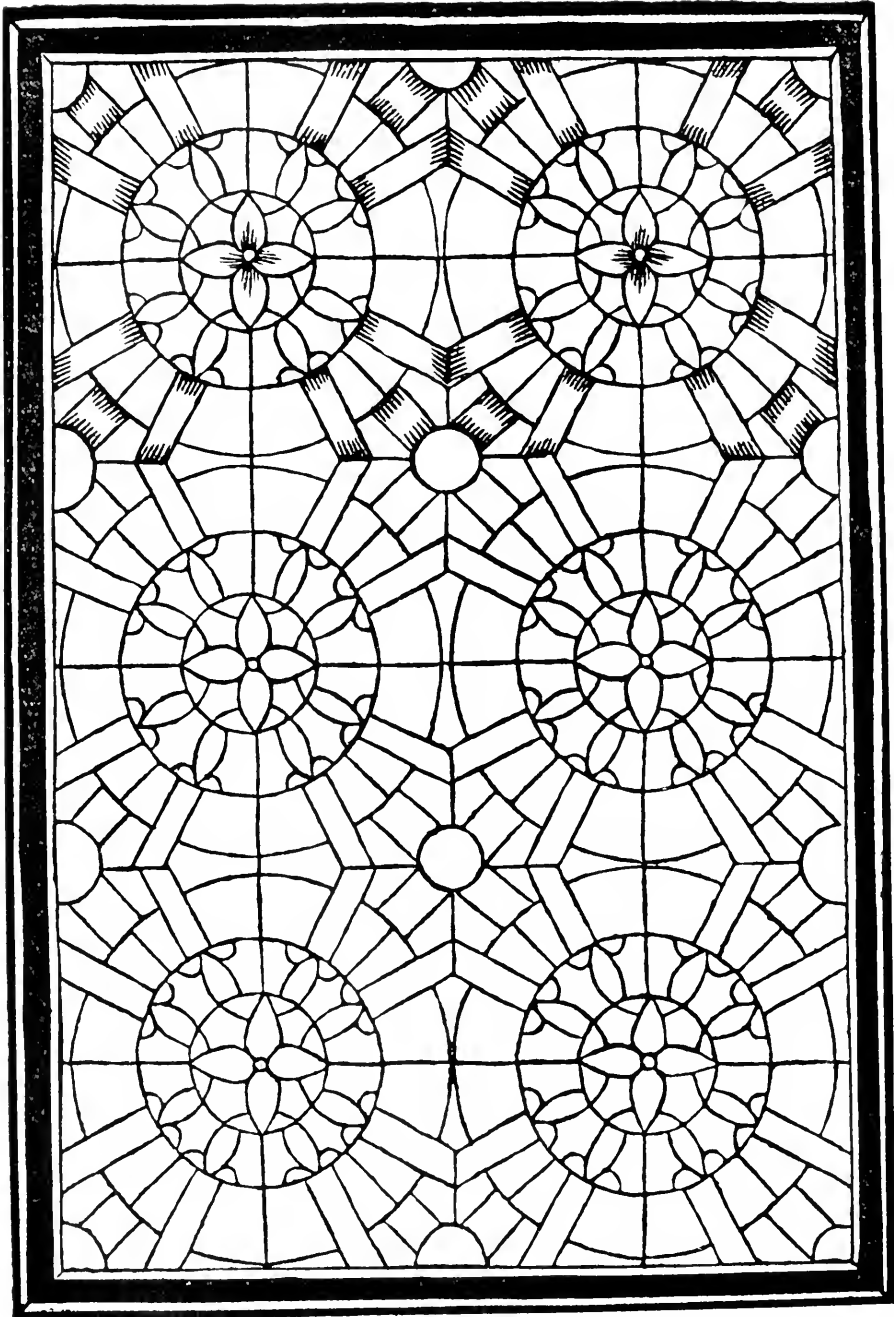


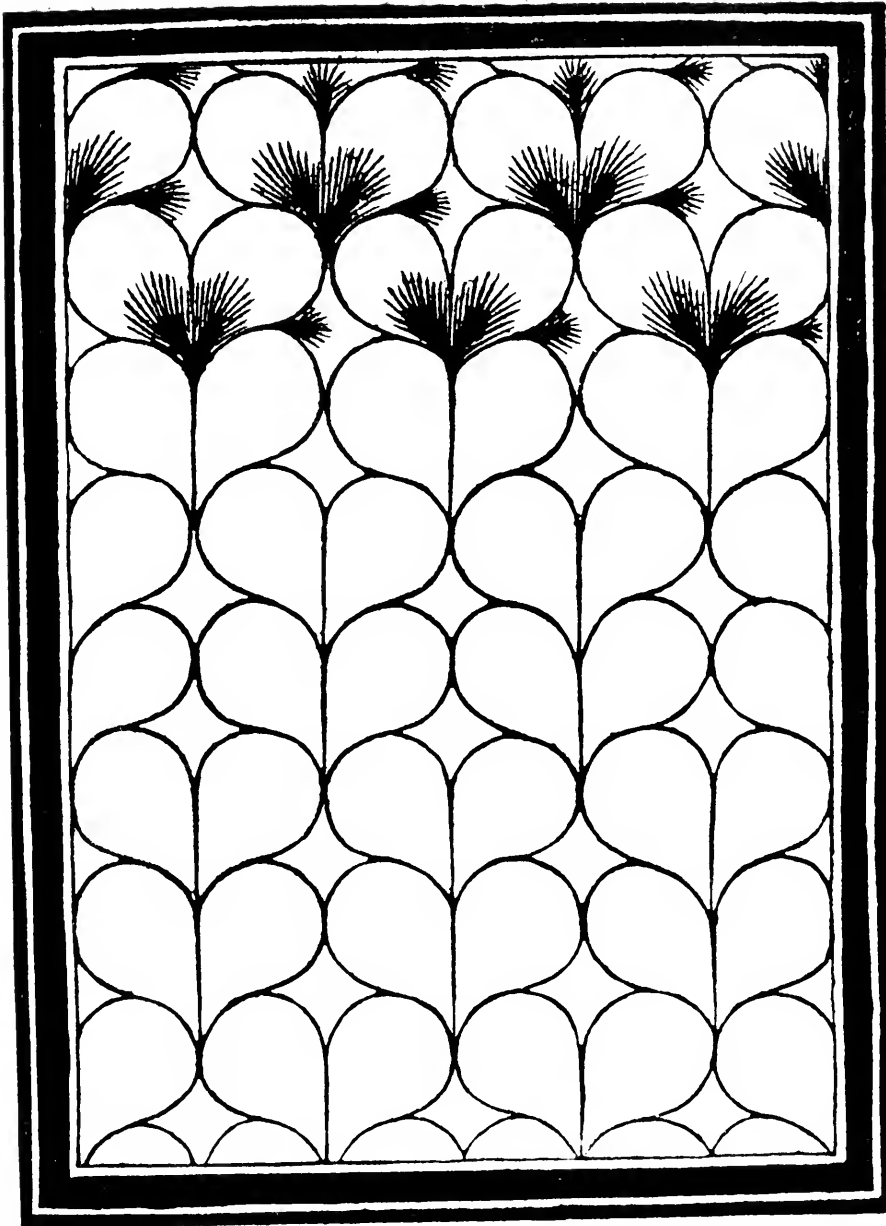


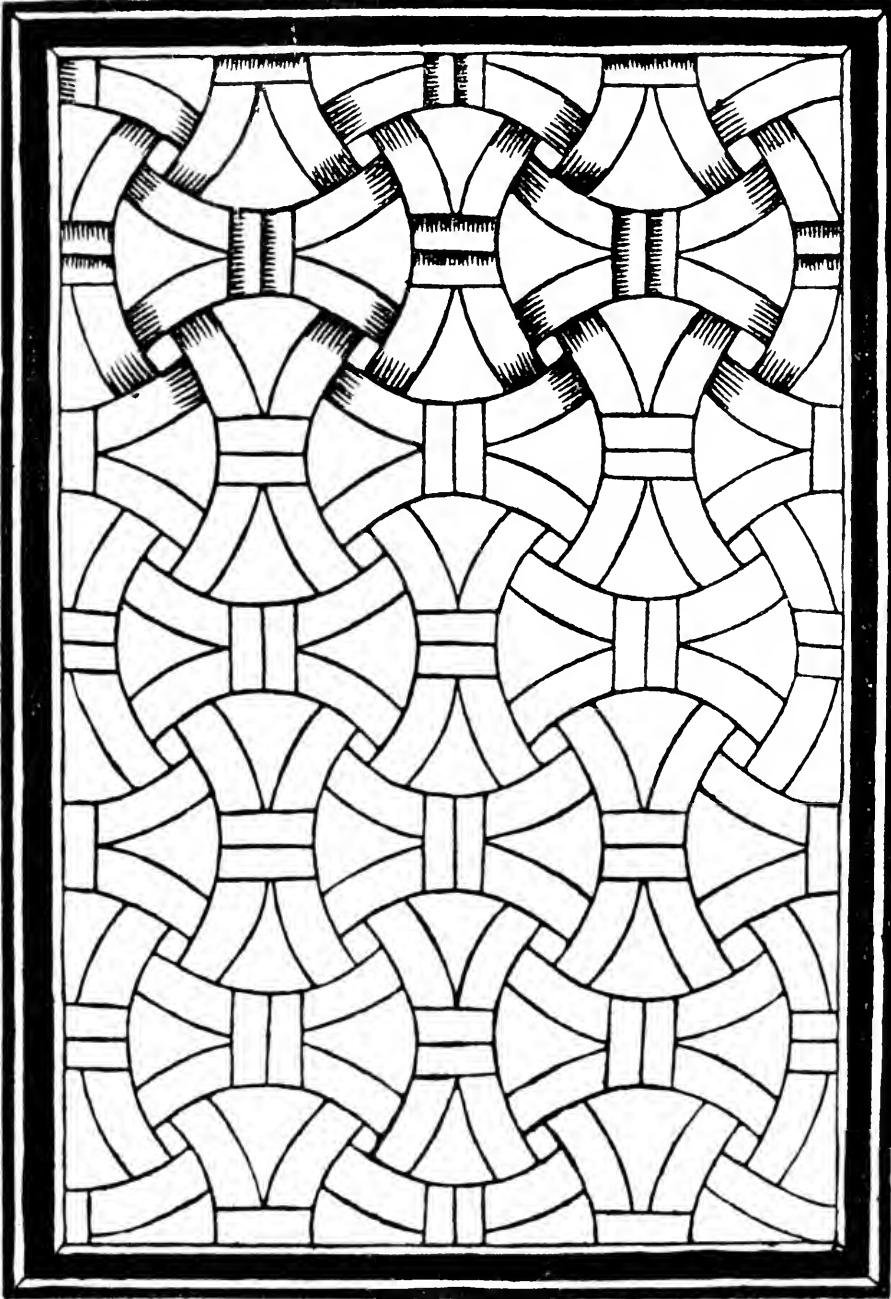


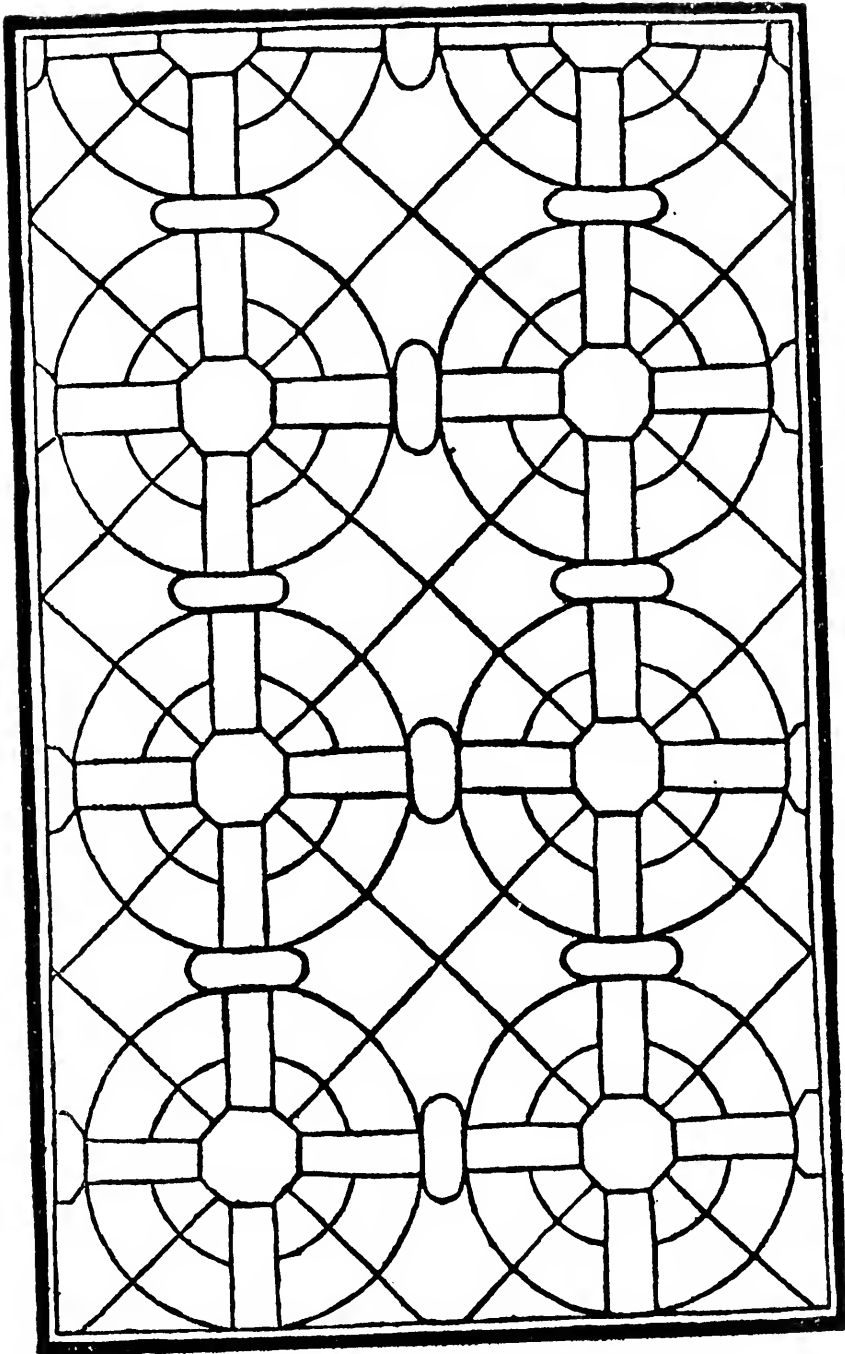


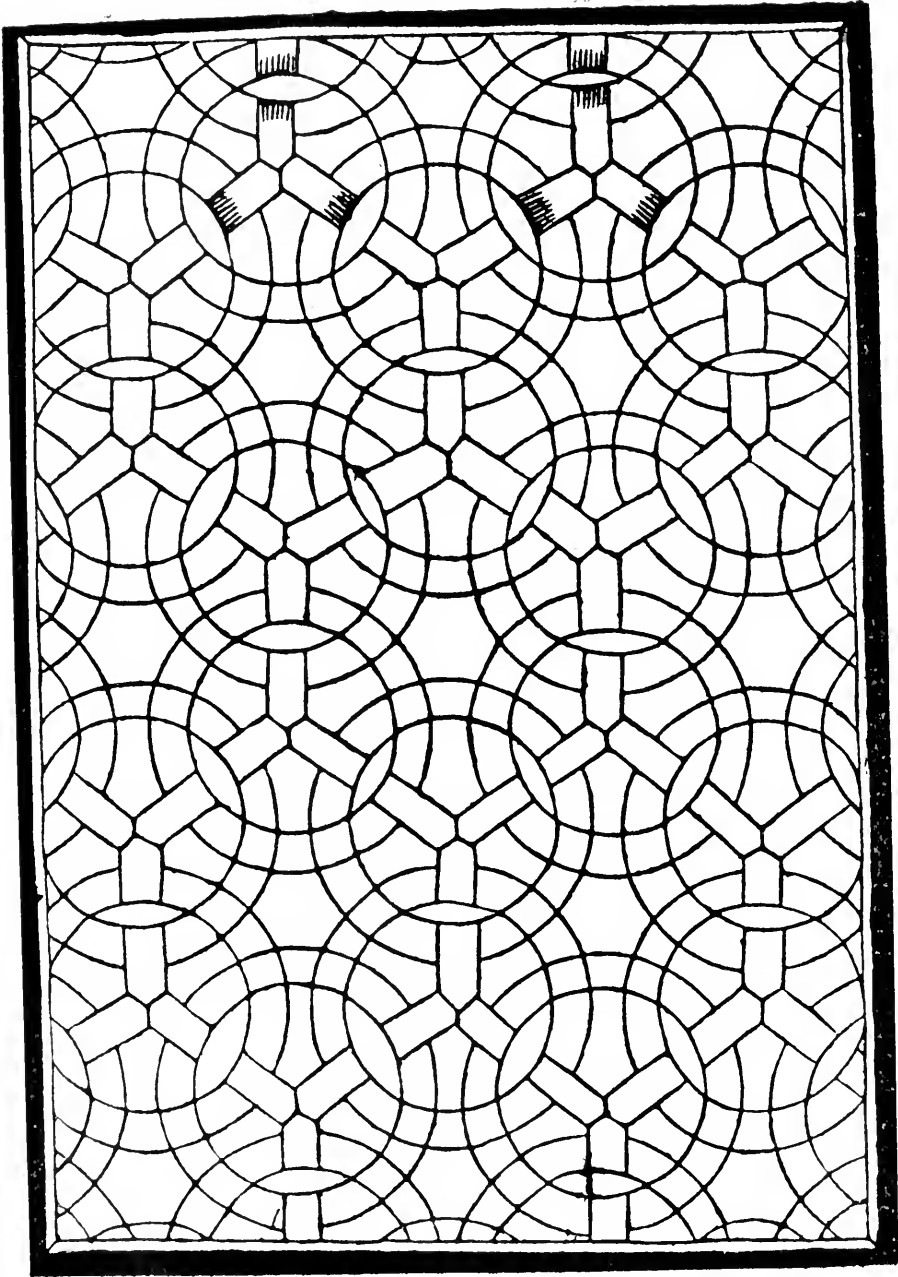


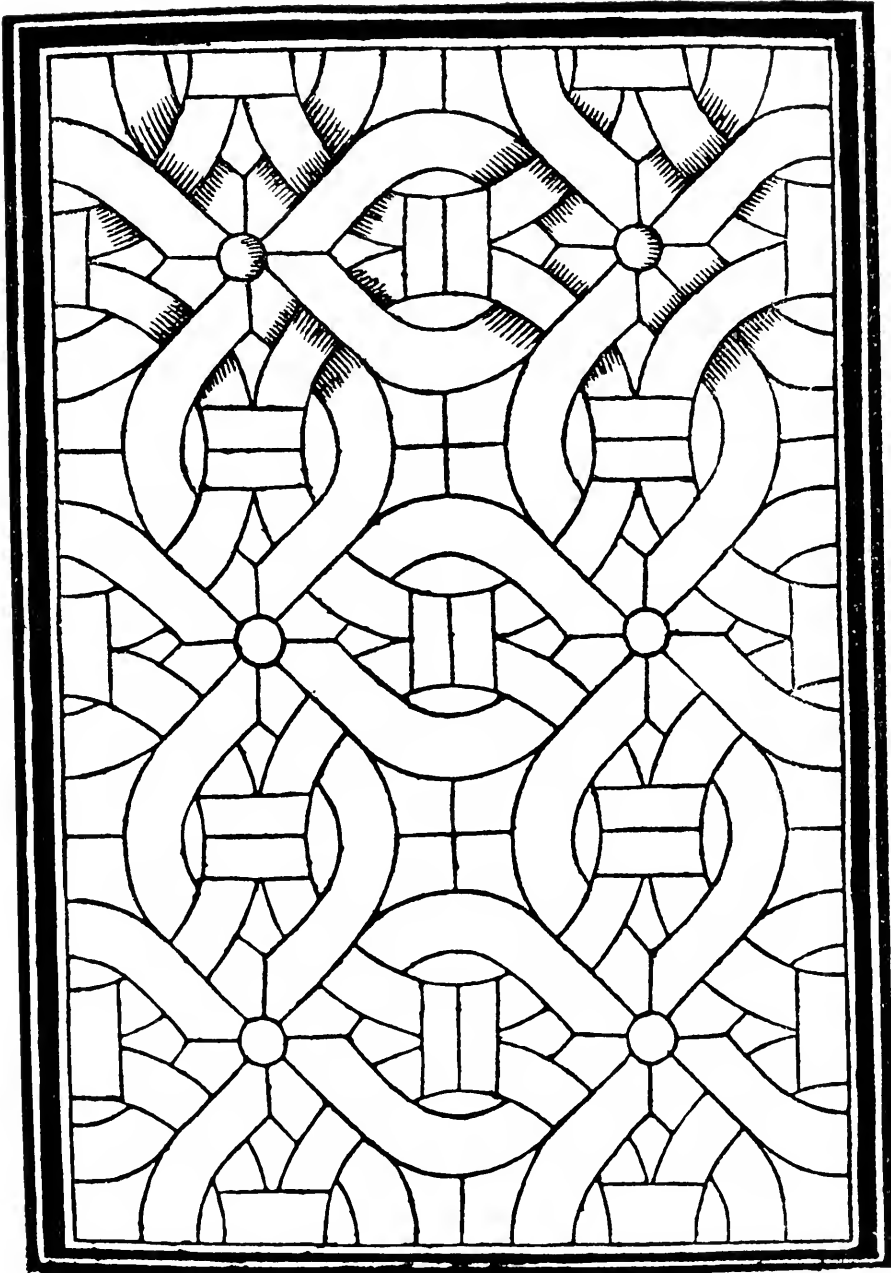


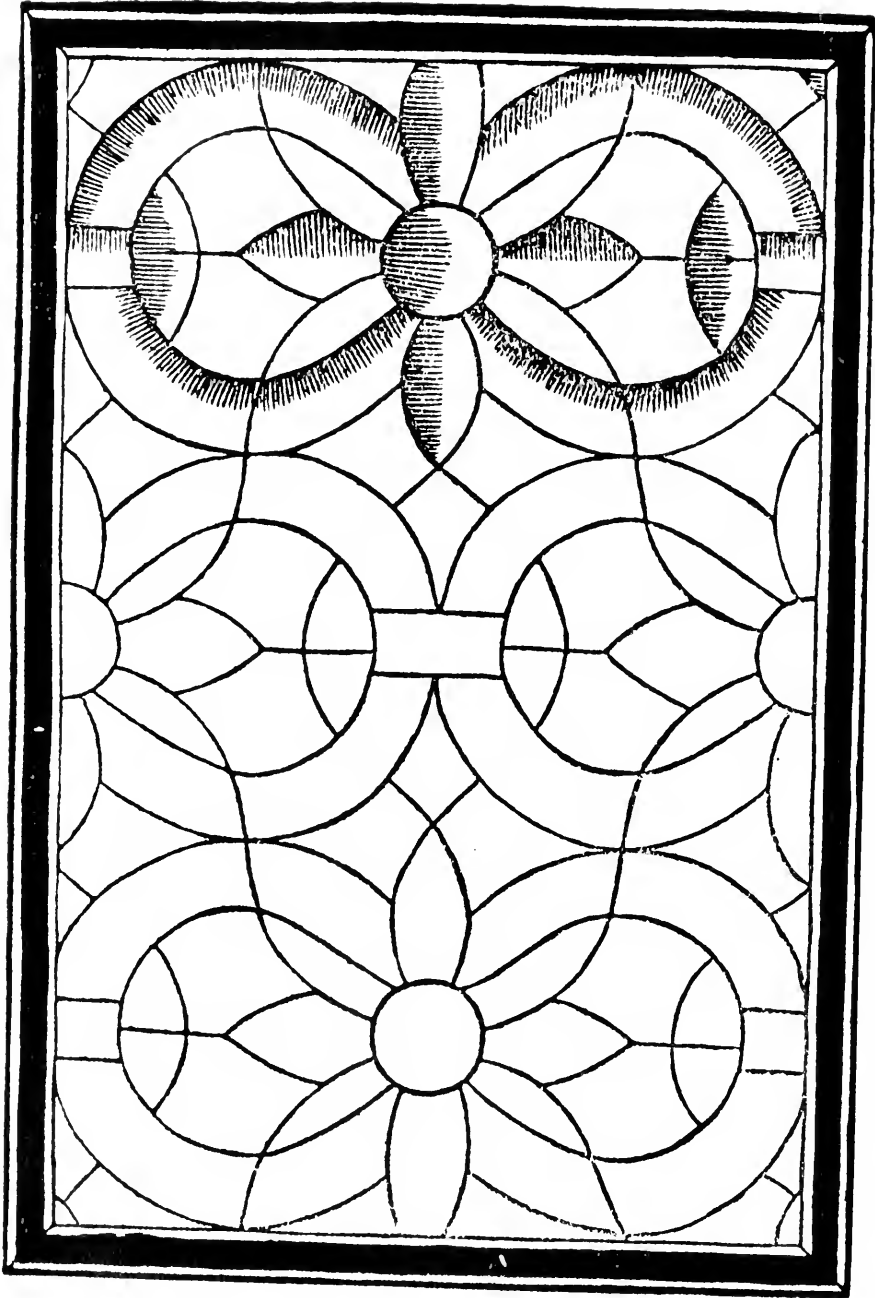


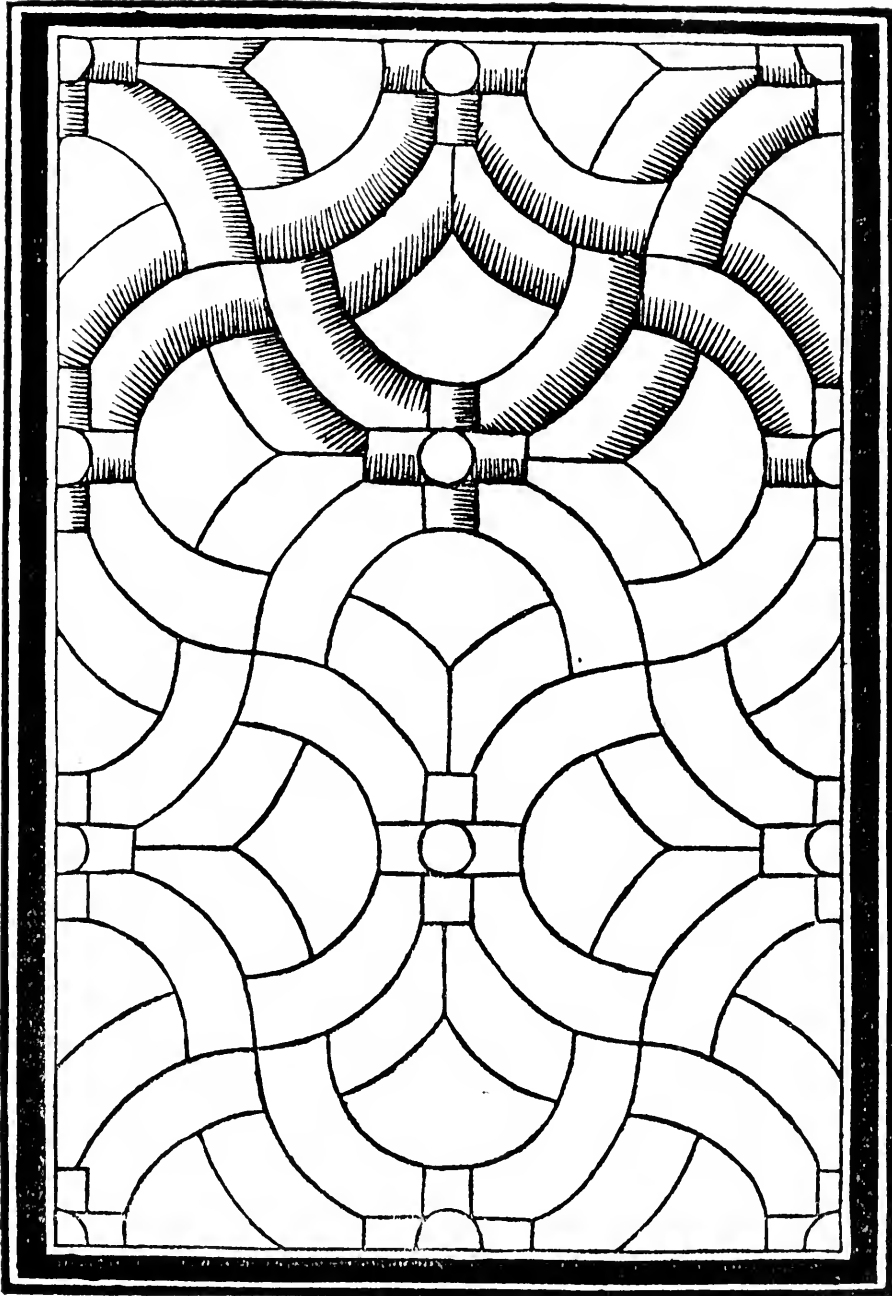


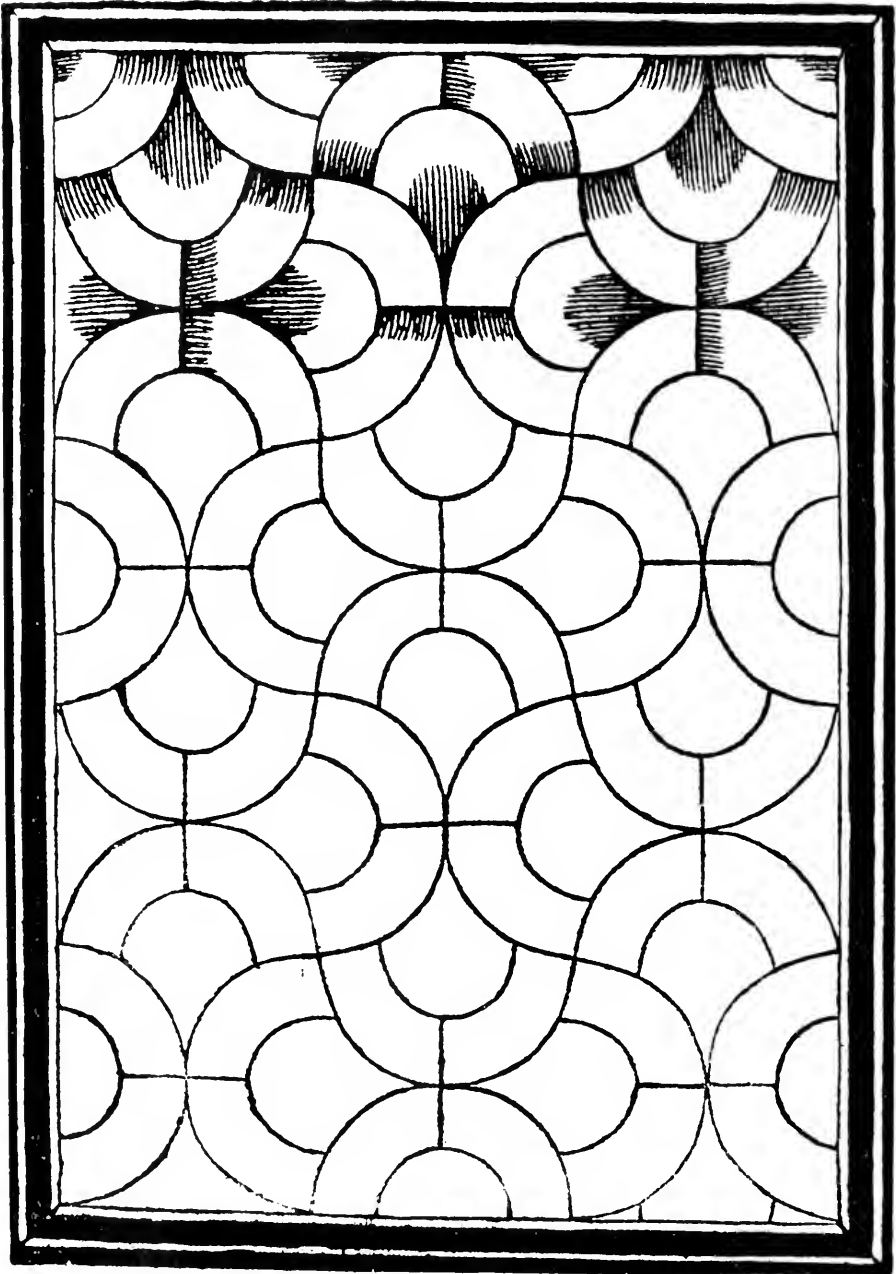


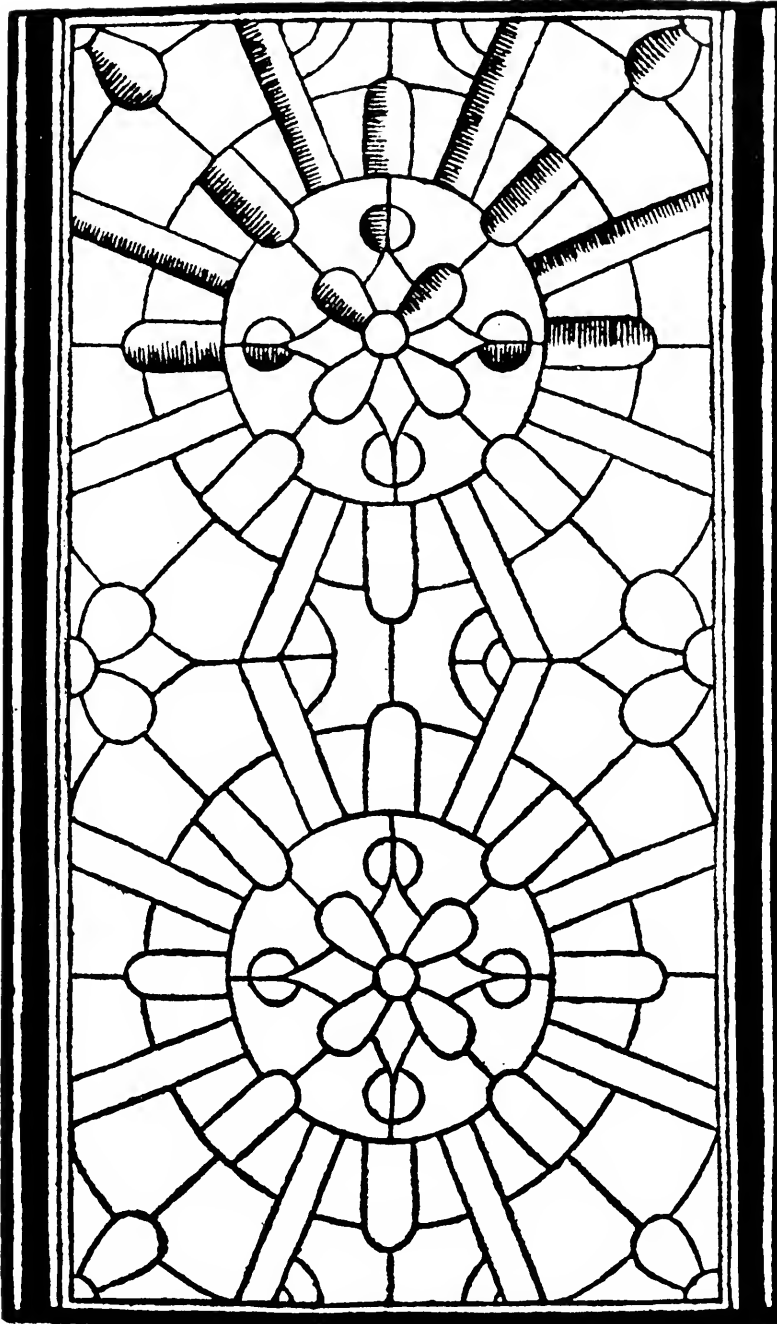


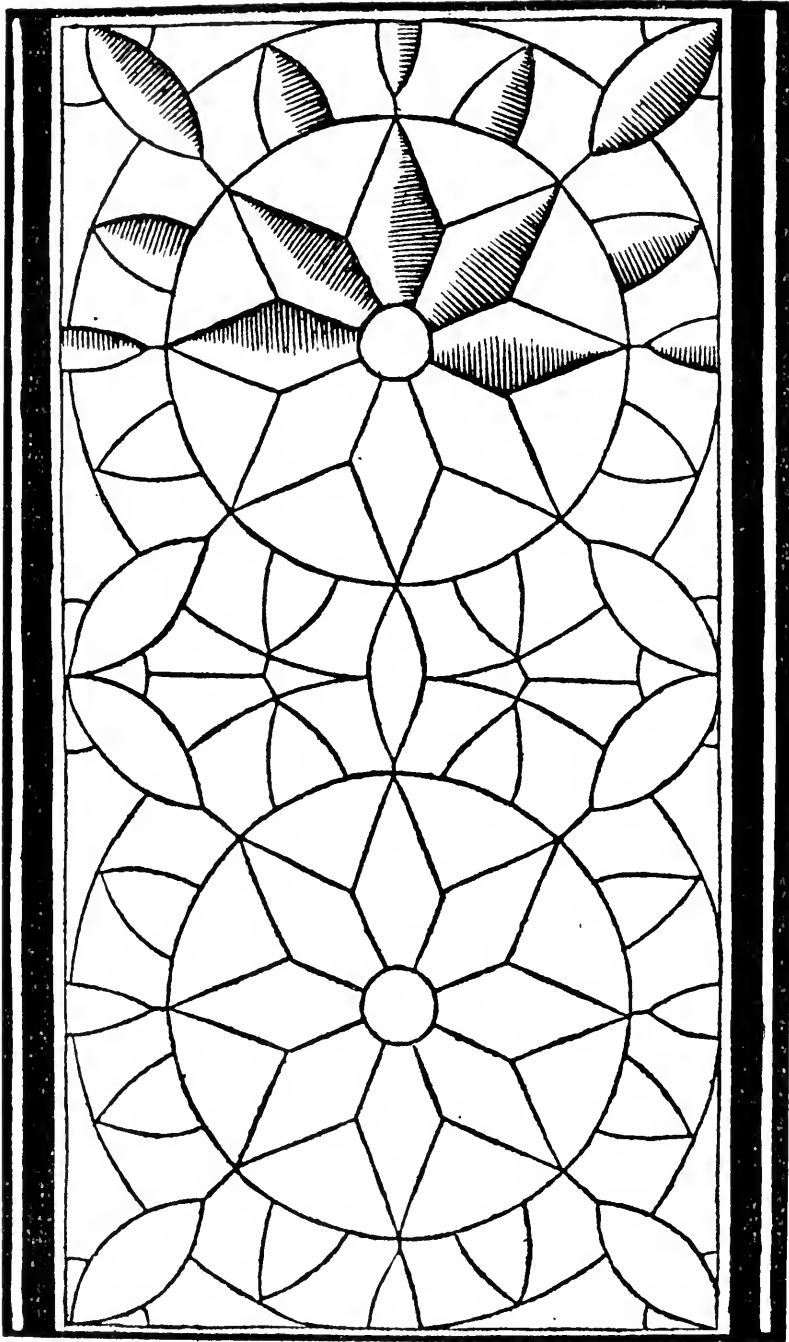


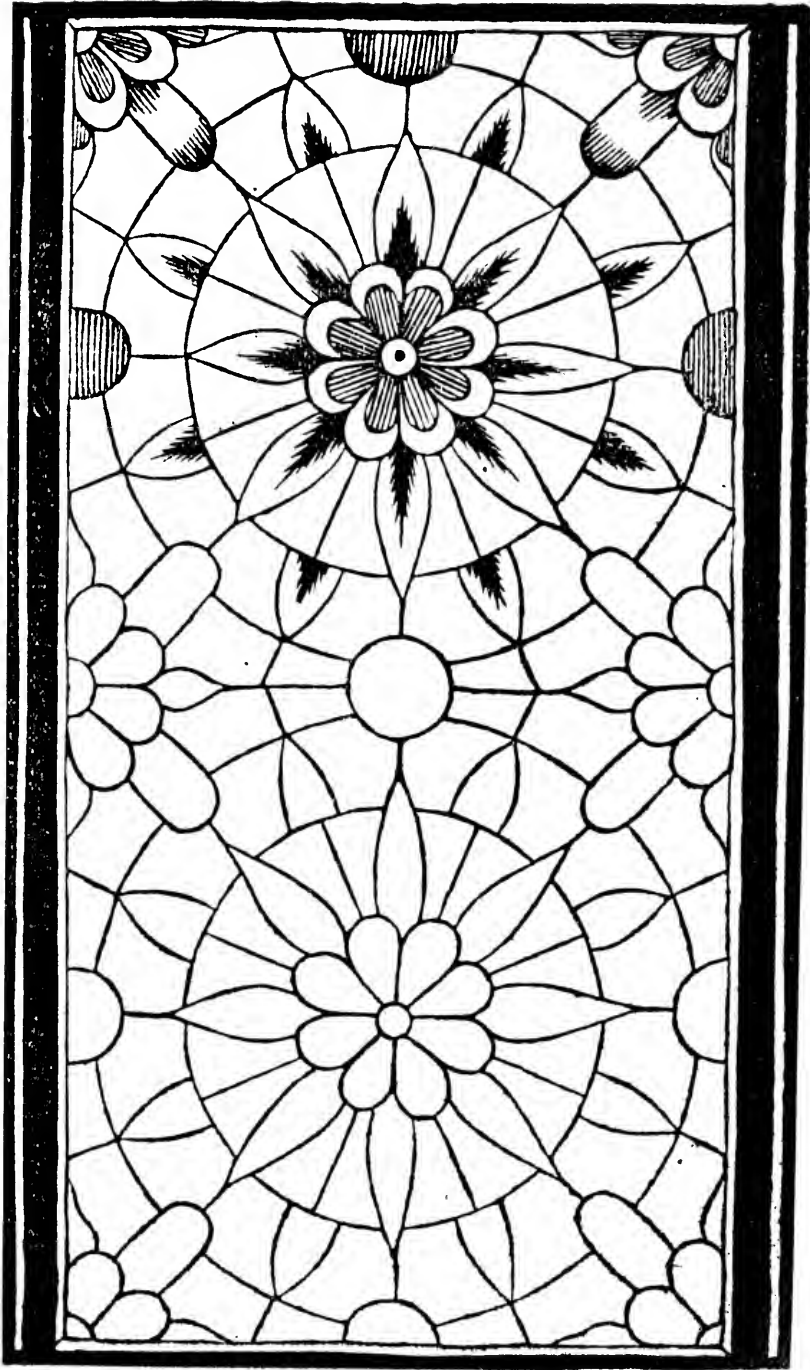


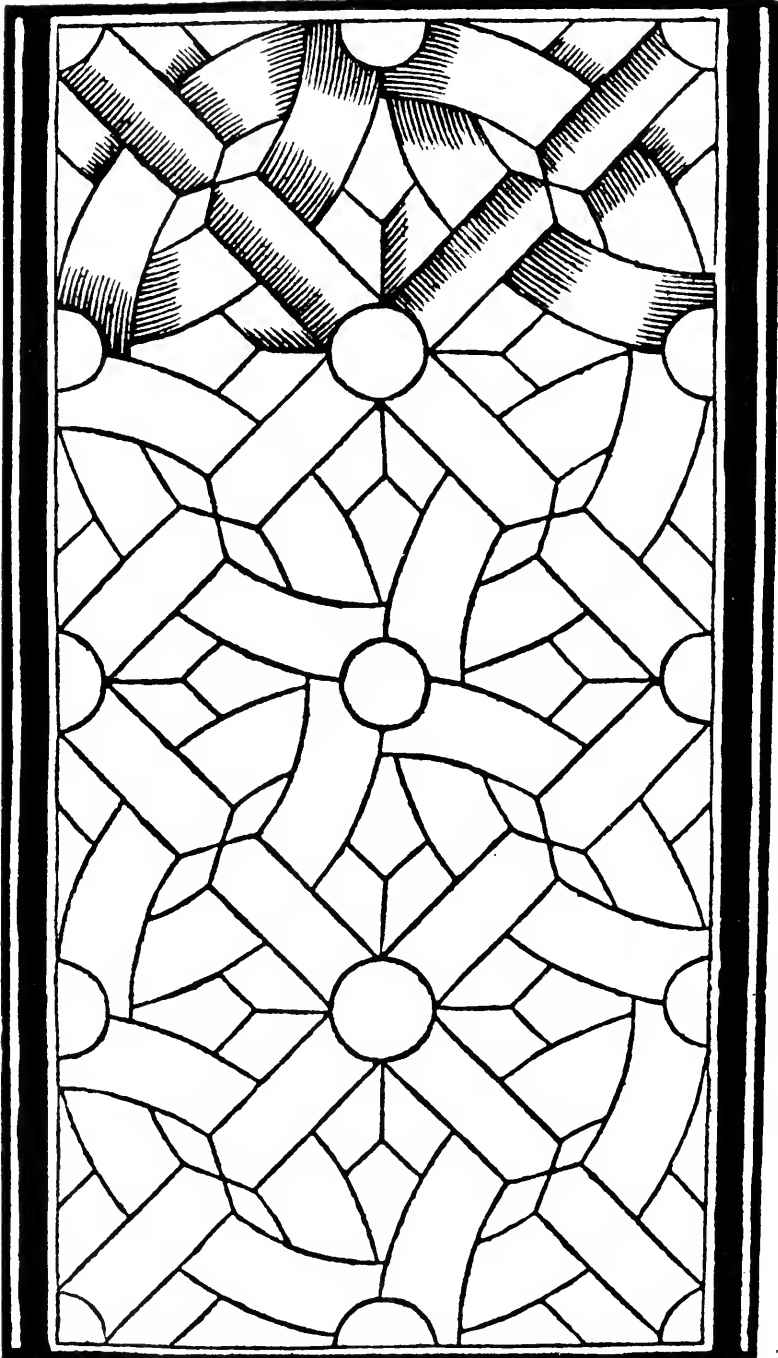


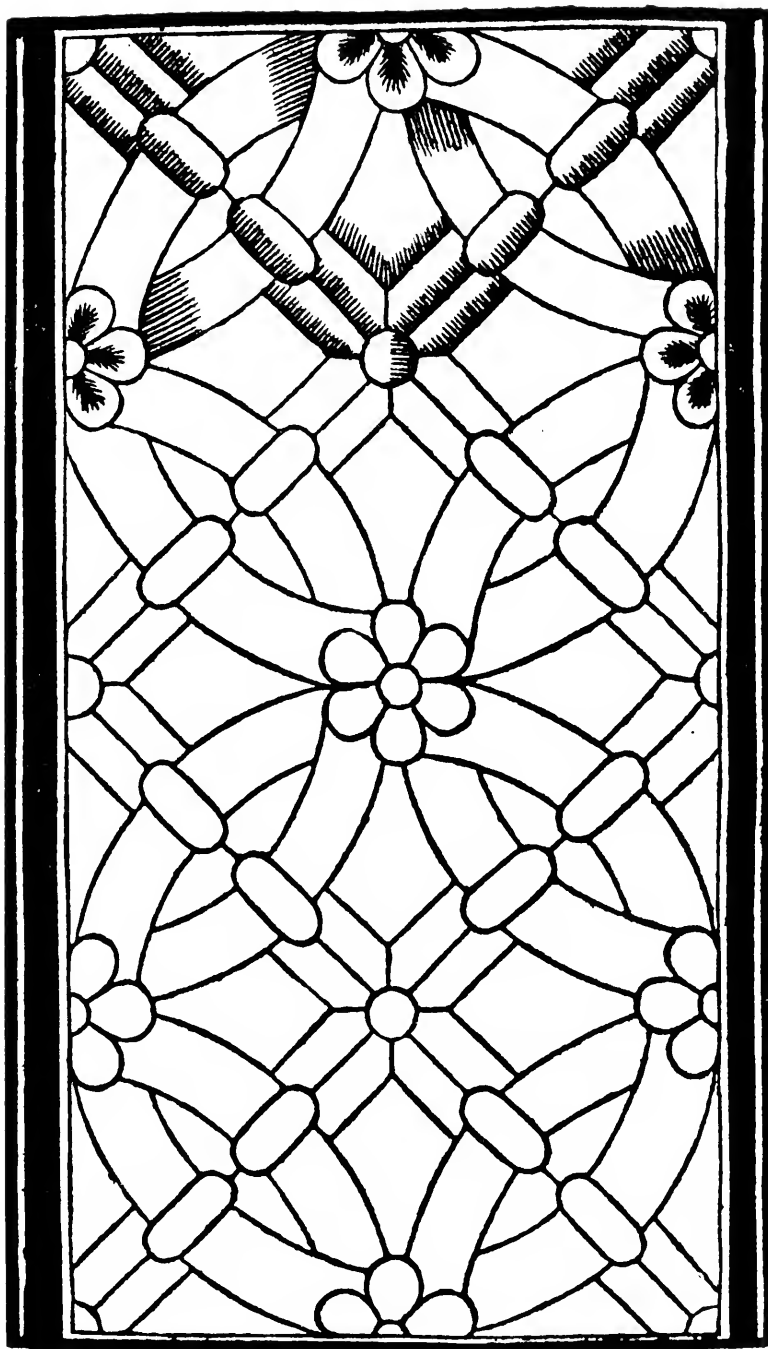


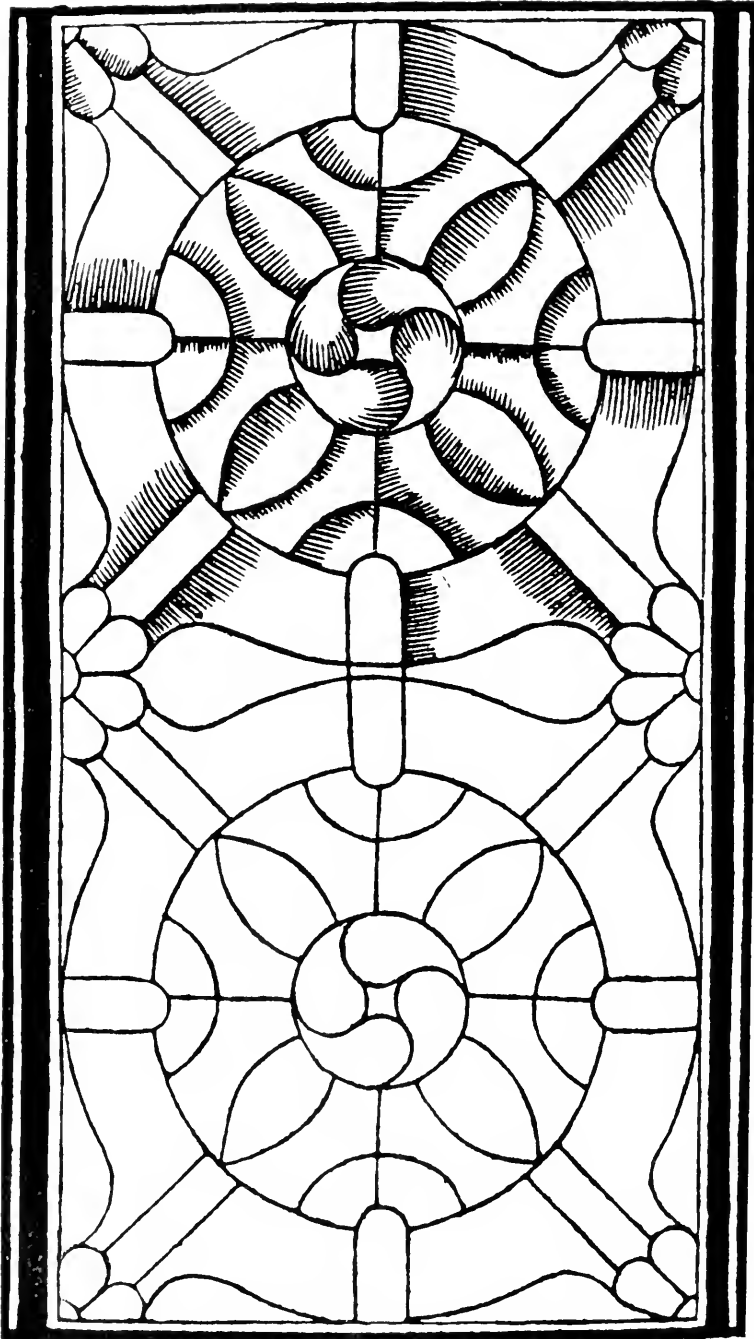


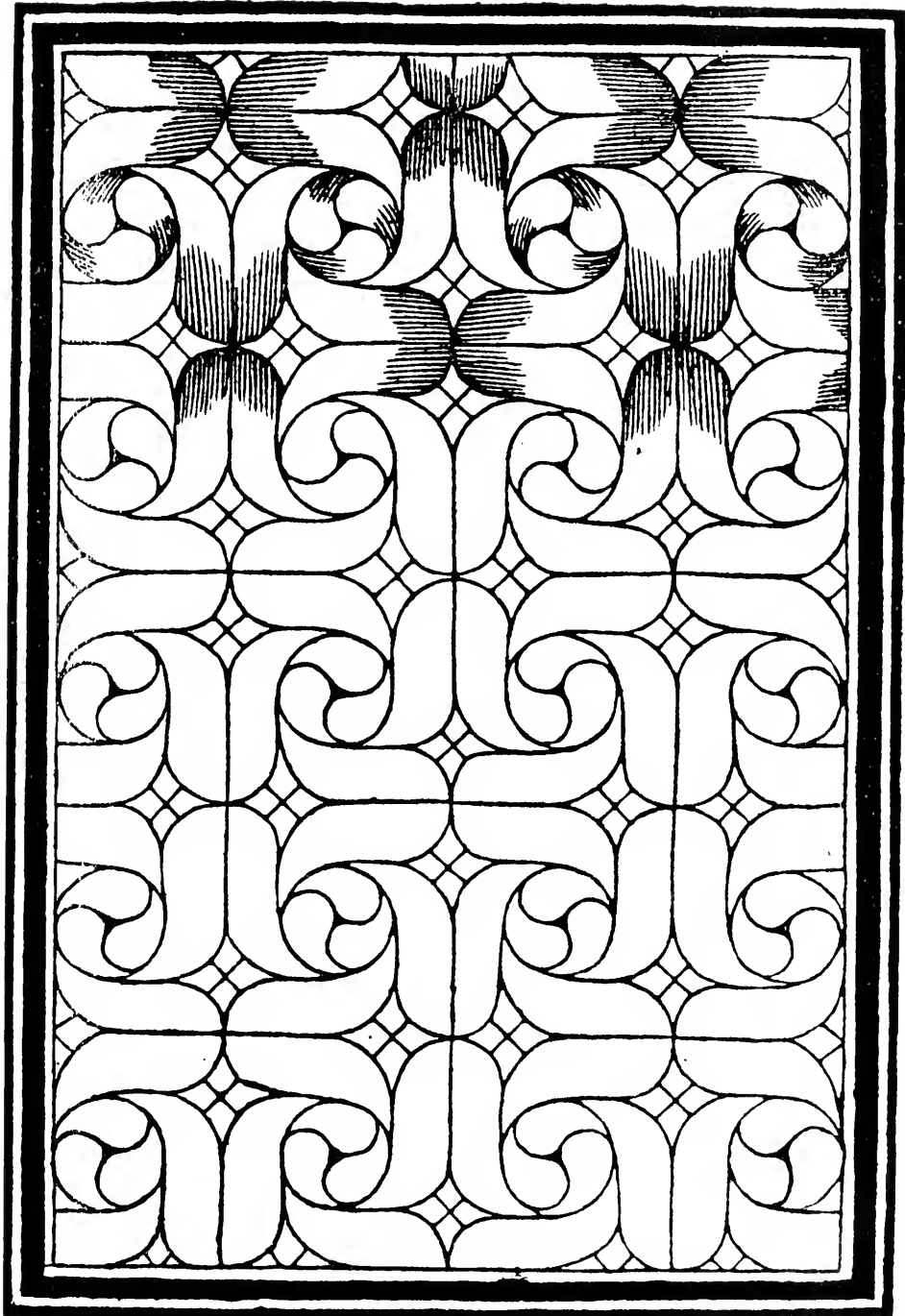


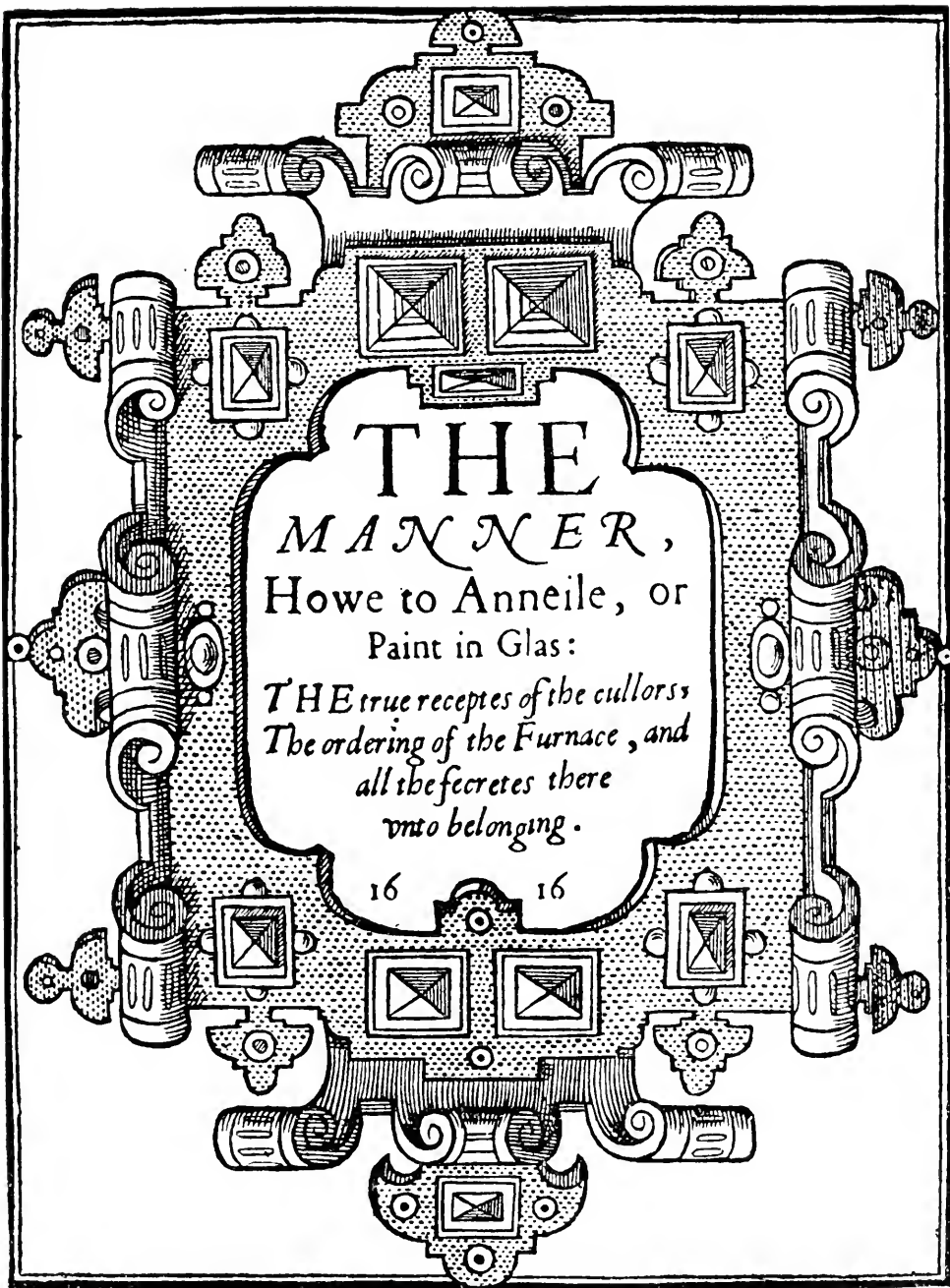












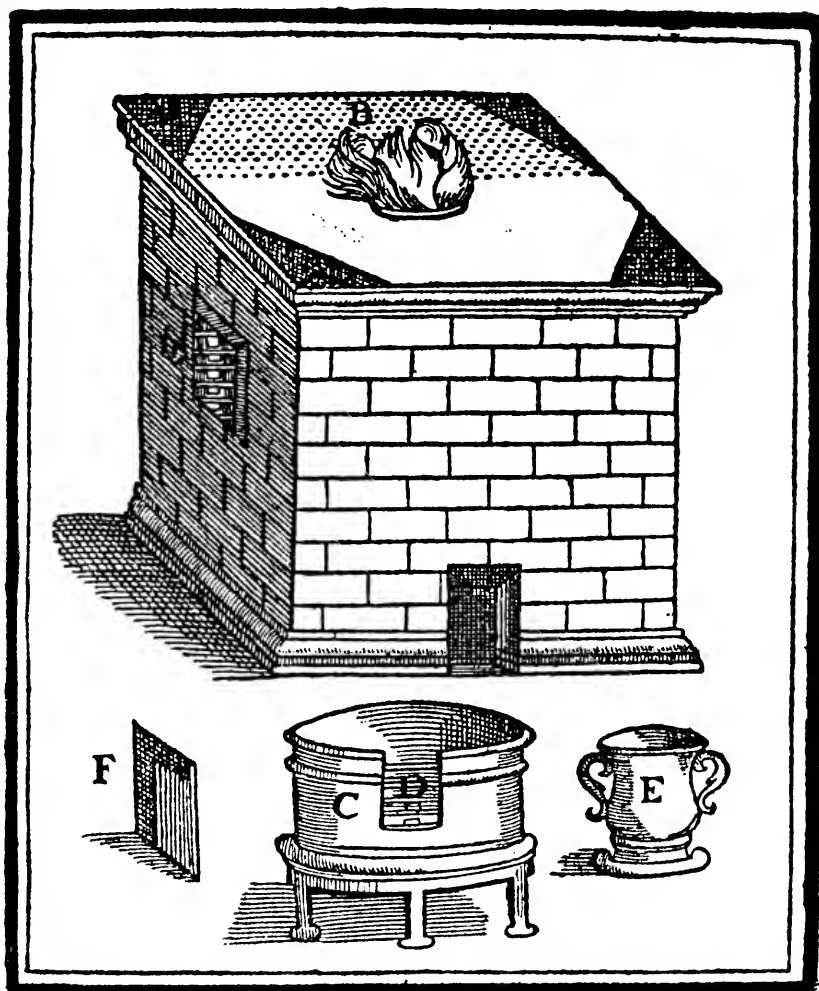
THE
MANNER,
Howe to Anneile, or
Paint in Glas:

*THE true receptes of the cullors,
The ordering of the Furnace, and
all the secretes there
vnto belonging.*

16

16

THE TRVE FORME, OF THE
Furnace, for the Anneiling in Glasfe, withall
the Instruments belonging therevnto .



Howe to Anneile in Glasſe .

THE MANNER HOWE to erect the Fornace .



TAKE free-stone, or Bricke, and proportion it fower foote square, and three foote high and two foote and halfe in each square : And at either corner which is marked with the letter A. leaue an open hole, to let oute the smoake, when neede shall require : which holes you shall cover, with peeces of bricke-bats. And in the middle of the toppe of the Fornace, around hole made, fower inches over as ye see it markt with letter B. which hole you must alwayes keepe covered with a turffe or Charcole, & renew it so often as the fire doth consume it away : And note that this hole doth serue to giue vent to the smoake, and to keepe in the heate : for this hole is right over the mouth of the Pan where the glasſe lieth.

This Pan, marked with the letter C. must be made of fine clay, fit to indure the fire and placed on an Iron trever, in the midst of the Fornace, so that the fire may haue place to giue heat, both vnder and aboue the pan.

This Pan wherein the glas is put, must haue an open square in the side, five inches high, and three inches broad, as you see marked with the letter D. and the like open place must be made in the side of the fornace, right opposite to the open square in the side of the pan, where the peeces of glas do lie, called the prooffe peeces, which peeces, are to be ken in & oute at your pleasure, whereby you may knowe when your wrought glasſe is thorowly enameled, and of a faire coullour

HOW

How to Anneile in Glasse .

*How you ought to prepare and put your Glas into
the Furnace .*

T A K E Chalke that is cleane , and beate it small in a Morter , or else grind it well on a painters stone : then sprinkle some of it in the bottom of the Pan, before the fire be put in the Furnace : then lay a plye, or laine of glasse that is wrought thereo, the sift on more chalk and then laye another tyre, or laine of glasse : So by beds of chalke & glasse, you may lay on as much prepared glas as the Pan will hold one rewe aboute another, but remēber that betwene every rewe of glasse you do fiste on chalke, that the wrought glasse may not touch one another. Then take litle peeces of glasse, and touche the with the same coullour that your wrought glasse is of, & put them in at the passag, at the side of the Furnace, betwixt the beds of wrought glasse, & then begin to make a reasonable fire vnder and aboute the Pan vtill you thinke, that the glasse hath taken a faire coullour .

Now to knowe when your glas is perfectly ready ; take a paire of tonges, and drawe oute one of those little peeces of glasse, called the prooffe peece, and hold it betwext you and the light : if the cullor shewe faire and stick fast vppon the glasse, then you may be sure that the worke vnder is well and perfectly anneiled. because it hath had the greatest strength of the fire : But if you doubt that the cullours be not sure, then rubbe with a rough stone or a knife, one of the prooffe peeces, and then if the cullor come of, then you must let it continew longer in the fire, while you put the next peece to the prooffe . Note further that the prooffe hole in the side of the Furnace , marked with the letter *D* . must haue a stone that will abide the fire fitted to it, such a one as you see marked with the letter *F* . which stone serveth to take of, and put on so often as you make triall of the prooffe peeces .

Also you must haue an earthen pot, such as ye see marked with the letter *E* . wherein you must haue a readines some soft clay to fasten the stone againe, so often as you shall haue occasion to remoue it : But the holes in the toppe of the furnace you must not stoppe with clay, but only with peeces of brick bats so that the smoake may haue vent oute .

„

Howe to anneale In Glasse .

THE RECEIPETS, FOR THE true making of Collours for Glasse .

To make a faire Blacke .

TAKE the Scales of Iron & Copper, of each a like waight, & put it in a cleane vessell that will indure the fire , till they be red hotte, then take halfe as much Ieate, and stamp them into smal poulder, then mix them with Gumwater, & grind them fine vpon a painters stone and so drawe with it vpon your glasse.

To make a Greene coullour .

TAKE Vertegrease , and grind it very well with Turpentine then put it in a cleane pot , and when you would vse it warme it at the fire .

To make a faire red .

TAKE Sanguis draconis and beate it well in a Morter, & after straine it thorough a linning cloth, with a litle Aquavie, and so vse it .

Carnation .

TAKE two ouces of Tyn-glas, and six ovnces of leat, half an ounce of gum, ten ounces of red Ocker, and grind them very well together, and so vse it.

Blew.

How to Anneale in Glasse .

Blew .

T A K E beades of blew glas, and beat them into poulder, in a brasen mortar, and halfe as much of goldsmithes blew amaling that shines through, & grind them together with gum-water, and so vse it .

Yellow .

T A K E a quantitie of fine siluer, and cut it in smale peeces and put thereto a little Antimonium beaten to poulder, and put them to-geather in a melting-pot, and set them on the fire well covered round about with hotte embers the space of an hower, then take it from the fire, and poure it into the bottom of a cleane earthen vessell that will abide the heate thereof: after it is cold beat it into fine poulder, and grind it on a Painters stone, and when it is well ground, take sixe times as much Ocker as the Silver weighes, and seven times as much old earth that hath bin scraped off from enamaled worke: after that, let it be well ground, then put all this together in a pot with gume-water, and stirre it well aboute and so vse it

To make a Grey couller .

T A K E Iron scales, a little Cristall, and sume smale quantitie of leate, grind these well together vpon a painters stone, the more leate ye take, the fadder the coullour will be, & likewise the more christall you put to it the lighter .

Howe to anneile in Glasse .

To Diaper vppon glas .

TAKE Cristall, beaten to poulder, and grind it well vppon apainters stone with Gumwater, and so vse it: It will apeare a prettie light coullour, different from the glas: Keepe this coullour in a little Potte, and when you will vse it, stirre it well aboute.

Another faire red Cullour .

TAKE a quatie of red glasse beades, and halfe as much of Goldsmithes red Enamaling, and prepare it as you did the blew coullour before.



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